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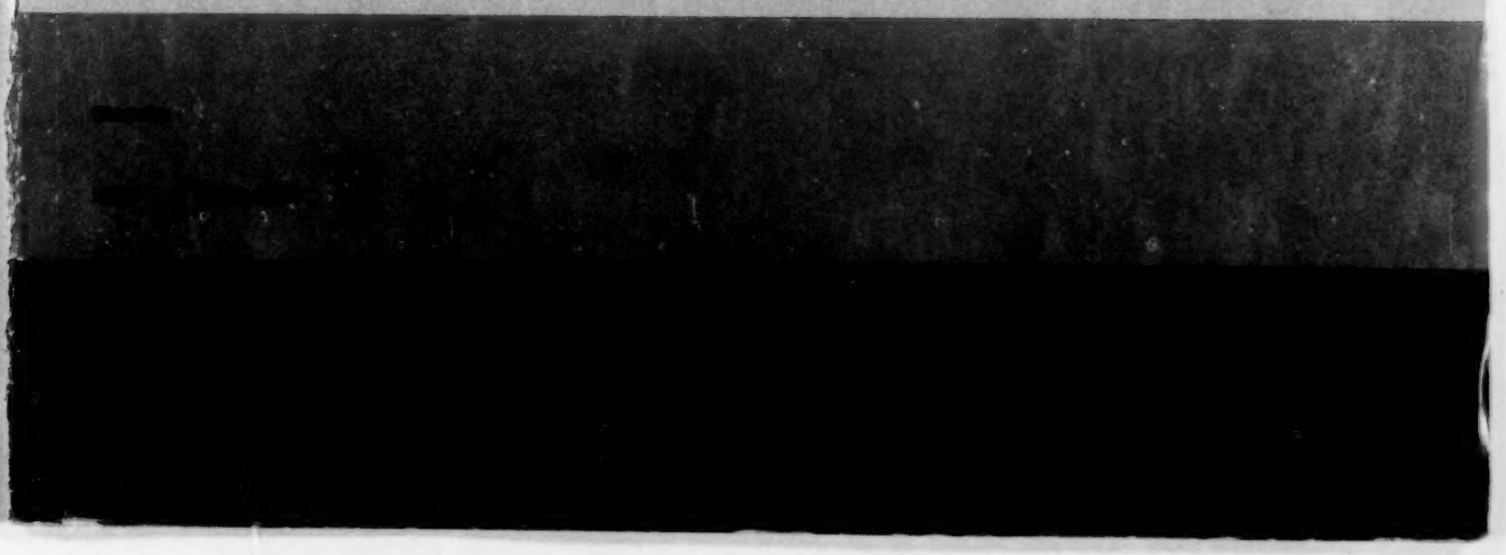

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	BIO-ENERGETICS 6 volumes [a]	BIO-MEMBRANES 11 volumes [b]	GENE STRUCTURE AND EXPRESSION 3 volumes	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY 6 volumes	LIPIDS AND LIPID METABOLISM 5 volumes	GENERAL SUBJECTS 6 volumes	MOLECULAR CELL RESEARCH 4 volumes	BBA REVIEW SECTIONS
Jan.	806-1 = B70-1	812-1 = M125-1 812-2 = M125-2	824-1 = N11-1	827-1 = P27-1 827-2 = P27-2	833-1 = L72-1	838-1 = G115-1 838-2 = G115-2	844-1 = C8-1	
Feb.	806-2 = B70-2	812-3 = M125-3	824-2 = N11-2	827-3 = P27-3	833-2 = L72-2	838-3 = G115-3	844-2 = C8-2	BBA REVIEWS ON BIOENERGETICS
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July	808-3 = B72-3	817-1 = M130-1 817-2 = M130-2	825-3 = N12-3	830-1 = P30-1 830-2 = P30-2	835-3 = L74-3	841-1 = G118-1 841-2 = G118-2	846-1 = C10-1	822-1 = MR14-1 822-2 = MR14-2
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[a] This includes BBA Reviews on Bioenergetics, Vol. 811. [b] This includes BBA Reviews on Biomembranes, Vol. 822.

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Introduction

For the Subject Index, up to six key words (or short phrases) are selected for each article; these are printed together, and each is selected in turn to form an index entry. Important factors of each investigation are selected as key words; general terms such as enzyme, rat, spectroscopy, etc. will not be found as separate entries. However, such words, together with appropriate entries for source(s) of materials or for method(s) used, may be found in parentheses at the end of a group of key words. These words are sub-key words and are intended to provide useful supplementary information; they do not, however, constitute sufficiently precise indexing terms to be used as index entries.

Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the 1985 Publication Schedule, which can be found on the inside front cover of this Index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index.

The Editors and Publishers welcome any comments on the usefulness of this index, together with suggestions for improvements.

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Photosystem II; Tetraphenylboron; Cyclic voltammetry; Water splitting (Spinach chloroplast) (Hanssum, B. (808) 243)

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Aldose reductase
Aldehyde reductase (Human) (Srivastava, S.K. (840) 334)

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Alkylacylglycerophosphocholine
Platelet-activating factor; Lyso-PAF; Arachidonic acid; Ether-linked lipid; Phospholipid molecular species; Alkylacetylglycerophosphocholine (Robinson, M. (837) 52)

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Amorphous component
Amorphin; Glycogen phosphorylase; Myofibril (Chicken pectoralis muscle) (Maruyama, K. (829) 229)

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Anesthesia mechanism; Phospholipid vesicle; Water transport; Kinetics (Inoue, T. (812) 393)

Membrane fusion; Ca^{2+} (Simmonds, A.C. (813) 331)

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Amphipathic ion adsorption; Lipid bilayer; Biological activity; Zeta potential (Requena, J. (814) 191)

NMR; Phosphatidylcholine bilayer; Trichloroethylene; Phase transition (Forrest, B.J. (814) 281)

Alkanol; Anesthesia mechanism; Phospholipid vesicle; Phospholipid membrane; Water transport; Kinetics (Inoue, T. (815) 68)

Phospholipid monolayer; Air/water interface; Inhalation anesthetic (Suezaki, Y. (817) 139)

Phospholipid bilayer; ^2H-NMR; Differential scanning calorimetry; Alkanol (Thewalt, J.L. (817) 355)

Phospholipid membrane; Phase transition; Alkanol; Statistical mechanics (Suezaki, Y. (818) 31)

Phospholipid membrane; Phase transition; Alcohol; Kinetics; Stopped flow (Inoue, T. (818) 117)

Bacteriorhodopsin; Purple membrane; Retinal isomer; Circular dichroism (*H. halobium*) (Nishimura, S. (818) 421)

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Angiotensin
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Angiotensin-converting enzyme
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Binding site; Disulfide bond; Dithiothreitol (Rabbit liver) (Sen, I. (813) 103)

Angiotensinogen synthesis
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2,5-Anhydro-D-mannitol
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Anion dependence
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Anion exchange
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Anionic phospholipid
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Anion permeability
H^+-ATPase; Plasma membrane; Tonoplast; H^+ permeability (Zucchini fruit) (Lew, R.R. (821) 341)

Anion transport
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Phosphate transport; Dansyl chloride; Erythrocyte membrane; pH dependence (Berghout, A. (815) 281)

Aging; Erythrocyte membrane; Membrane permeability (Zanner, M.A. (818) 310)

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Anomeric specificity
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Hexokinase; D-Mannose; Parotid gland; Pancreatic islet (Rat) (Giroix, M.-H. (829) 354)

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Antibiotic action
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Antibiotic-enzyme interaction
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Antibody
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Anticoagulant activity
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Antiestrogen
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Antigen-antibody interaction
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Antigenic determinant
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Antigenic determination
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Antigenic variation
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Differentiation inhibition; Dexamethasone (Friend cell) (Mayeux, P. (846) 413)

Anti-inflammatory steroid
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Acyl-CoA oxidase; D-Amino acid oxidase; Uricase; Autophagy; Insulin (Rat liver peroxisome) (Cubeddu, T.L. (839) 96)

Antimalaria
NMR; Porphyrin-drug interaction (Moreau, S. (840) 107)

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Antimitotic drug
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Antimycin A
Electron transport; Photophosphorylation; Ferredoxin; Ferredoxin-NADP reductase (Spinach chloroplast) (Hosler, J.P. (808) 21)

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Antiphospholipase A_2 protein
Anti-inflammatory steroid; Lipocortin; Prostaglandin (Fibroblast) (Errasfa, M. (847) 247)

Antisecretory activity
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Antiserum
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α_1-Antitrypsin deficiency
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Aplysiatoxin
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Apocytochrome c
Lipid protein interaction; Tryptophan fluorescence; Fluorescence; Differential scanning calorimetry; Circular dichroism; ESR (Rietveld, A. (818) 398)

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High-density lipoprotein; Complement inhibitor (Erythrocyte) (Packman, C.H. (812) 107)

HDL; Lipoprotein receptor (Human hepatoma HepG2) (Dashti, N. (833) 100)

Lipoprotein metabolism; VLDL; Lipoprotein receptor (Rat liver endothelial cell) (Gustafson, S. (834) 308)

Chylomicron remnant; Triacylglycerol; Lipoprotein lipase; Diabetes (Rat muscle, liver, adipose) (Levy, E. (834) 376)

Lipoprotein distribution (Chicken) (Hermier, D. (836) 105)

Apolipoprotein A
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Apolipoprotein A-I
Lipoprotein; Apolipoprotein E; Lipid recombinant; Lipid-protein interaction (Rifici, V.A. (834) 205)

Lipid-protein complex; Phosphatidylcholine; ESR; Recombinant lipoprotein (Antonov, I.V. (835) 50)

Steroidogenesis; Lipoprotein; HDL hybrid (Rat ovary) (Schreiber, J.R. (835) 169)

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Apolipoprotein A-I fusion
Lipoprotein transformation; Discoidal complex; Lecithin:cholesterol acyltransferase; Phospholipase (Nichols, A.V. (834) 285)

Apolipoprotein A-IV
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Apolipoprotein B
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Apolipoprotein catabolism
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Apolipoprotein C-II
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Apolipoprotein E
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Lipoprotein (Immunoaffinity chromatography) (Gibson, J.C. (835) 113)

Lecithin:cholesterol acyltransferase; Apolipoprotein A-IV; Enzyme activation (Human) (Chen, C.H. (836) 279)

Apolipoprotein receptor
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Apolipoprotein secretion
Macrophage; Apolipoprotein E; Lipoprotein metabolism (Human) (Wang-Iverson, P. (834) 256)

Cholesterol; Apolipoprotein B; Lipoprotein; VLDL (Human hepatocyte) (Kosykh, V.A. (836) 385)

Apoprotein
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Apoprotein synthesis
Nitrate reductase; Repression-derepression; Mo-cofactor (Cyanobacterium) (Bagchi, S.N. (838) 370)

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Acyl-CoA synthetase; Lymphocyte activation; Essential fatty acid deficiency; Fatty acid deficiency (Taylor, A.S. (833) 229)

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Eicosanoid release; Cicletanide; Ion ratio; Ca^{2+} dependence (Rat macrophage) (Elliott, G.R. (837) 213)

Arachidonate metabolism
Hydroxyeicosatetraenoic acid synthesis; 11-HETE; 15-HETE; Cyclooxygenase (Human umbilical artery) (Setty, B.N.Y. (833) 484)

Hydroxyeicosanoic acid; Lipoxygenase; Insulin secretion (Rat pancreatic islet) (Turk, J. (834) 23)

5-HETE; Coumarin derivative; Dihydroxycoumarin; Hydroxyeicosanoic acid (Rat leukocyte) (Kimura, Y. (834) 224)

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Arachidonate metabolite
Monooxygenase; Mass spectrometry; Prostaglandin synthesis; Insulin release; Eicosanoid (Rat liver and pancreas) (Turk, J. (835) 1)

Arachidonate oxygenation
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Arachidonic acid
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Phosphatidylinositol; Phosphatidylcholine; Plasma membrane; Thrombin (Human platelets) (Skeaff, C.M. (834) 164)

Epidermal permeability barrier; Essential fatty acid deficiency; Acylceramide; Sphingolipid; Linoleic acid; Columbinic acid (Rat skin) (Hansen, H.S. (834) 357)

Lung surfactant; Oxidative stress; Free radical; Surface tension behavior (Rabbit lung) (Seeger, W. (835) 58)

Cyclooxygenase; Lipoxygenase (Human platelet) (Smith, J.B. (835) 344)

Cholesterol accumulation; Lipoxygenase (Mouse peritoneal macrophage) (Mathur, S.N. (837) 13)

Lipoxygenase; Linoleic acid (Porcine neutrophil) (Claeys, M. (837) 35)

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Superoxide radical; Adrenochrome synthesis (Bovine heart) (Guarnieri, C. (838) 355)

Platelet aggregation; Serotonin release; Prostaglandin endoperoxide; Thromboxane A_2 (Hashimoto, Y. (841) 283)

Insulin secretion; Melittin; Phospholipase A_2; Lipoxygenase (Rat pancreas) (Morgan, N.G. (845) 526)

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Prostaglandin synthesis; Glycerolipid; Chloramphenicol (Mouse peritoneal macrophage) (De Maroussem, D. (834) 8)

Archaebacterial lipid
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Arginine aminopeptidase
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Arginine kinase kinetics
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Arsenazo III
Ca^{2+} transport; Ethanol; Passive transport (Erythrocyte membrane) (Yingst, D.R. (813) 277)

Synaptosome; Ca^{2+} transport; Membrane potential (Guinea pig nerve) (Heinonen, E. (815) 203)

Ca^{2+} influx assay; Dioleoylphosphatidic acid; Dioleoylphosphatidylglycerol; Ionophore A23187; Liposome (Smaal, E.B. (816) 418)

Caffeine; Drug-dye interaction; Methylxanthine (Best, P.M. (838) 179)

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Arylalkylamine
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Arylsulfatase
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Chemical modification; Fluorescence quenching; Sulfhydryl group (Rabbit liver) (Waheed, A. (831) 67)

Arylsulfatase A
Enzyme purification; Subunit affinity chromatography; Immunochemistry (Human urine) (Laidler, P.M. (827) 73)

Precursor polypeptide processing; Phosphorylation; Sulfation; Glycoprotein; Tumor marker (Waheed, A. (847) 53)

Ascorbate
Free radical; Redox potential; NADH-cytochrome b_5 reductase; ESR (Iyanagi, T. (806) 255)

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Ascorbate requirement
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Ascorbate uptake
Ascorbate stability (Chick embryo skeletal tissue) (Roach, H.I. (842) 133)

Ascorbic acid
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Ascorbic acid transport
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Asparagine
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Aspartate aminotransferase
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Aspartate transcarbamoylase purification
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Asymmetric synthesis
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Arachidonate metabolism; Hydroperoxide (Rabbit aorta) (Henriksson, P. (834) 272)

Lipoprotein lipase; Cholesteryl linoleyl ether; Liposome; Cholesteryl ester (Bovine smooth muscle cell) (Stein, Y. (834) 336)

Triacylglycerol metabolism; Cell-cell interaction; VLDL; Foam cell; Free fatty acid; Lipoprotein (Macrophage, Smooth muscle cell) (Bergstraesser, L.M. (836) 296)

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Na^+-K^+ cotransport; Furosemide; Cellular metabolism (Human erythrocyte) (Adragna, N.C. (812) 293)

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F-Actin; Cytochalasin B; Nucleotide exchange; Treadmilling; ADP (Dancker, P. (838) 6)

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Ribose; Glycine; Adenine nucleotide synthesis (Cardiac myocyte) (Dow, J.W. (847) 223)

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8-azido-ADP; ATP synthase; Photoaffinity label; Adenine nucleotide binding (Submitochondrial particle) (Sloothaak, J.B. (809) 27)

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ATP activation
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ATP-citrate lyase
Phosphorylation (Rat liver) (Houston, B. (844) 233)

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ATP dependence
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Adenine nucleotide metabolism; Nucleoside transport; Erythrocyte membrane (Plagemann, P.G.W. (817) 51)

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ATP dialdehyde
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ATP effect
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Adenine nucleotide binding; Thylakoid membrane permeability (Spinach chloroplast) (Shigalowa, T. (809) 57)

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ATP synthase; Proton flux (Pea chloroplast) (Lemaire, C. (807) 285)

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Liposomes; Membrane potential; pH gradient; ATPase (Cyanobacteria) (Van Walraven, H.S. (809) 236)

Dithiothreitol; Chemical modification; pH gradient; Enzyme activation (Chloroplast) (Junesch, U. (809) 429)

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ATPase
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ATP synthesis; Reconstitution; Photophosphorylation (Lettuce chloroplast, Thermophilic bacterium) (Bar-Zvi, D. (806) 341)

Hydrogen bond; Proton transfer; Proton channel; Polaron (Tomchuk, P.M. (807) 272)

Photoaffinity labeling; Chemical modification; Nucleotide binding; Nucleotide analog (Thermophilic bacterium PS3) (Bar-Zvi, D. (807) 293)

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Bicarbonate effect
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Hematoporphyrin-membrane interaction; Liposome; Cholesterol; Porphyrin aggregation (Cohen, S. (813) 307)

Binding inhibition
Hydrazinosuccinate; Aspartate aminotransferase (Yamada, R.-H. (831) 82)

Binding protein
Vitamin transport; Thiamine; Biotin (*L. casei*) (Henderson, G.B. (813) 201)

Binding protein-ligand interaction
Carbohydrate transport; Methoxyindolecarboxylic acid (*E. coli*) (Richarme, G. (815) 37)

Binding site
Prostaglandin E_2; Erythrocyte membrane; Kinetics (Dutta-Roy, A.K. (812) 671)

Angiotensin II receptor; Disulfide bond; Dithiothreitol (Rabbit liver) (Sen, I. (813) 103)

Ribosome; rRNA; Ribosomal protein; Evolution (Raué, H.A. (826) 1)

Binding site regulation
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Binding specificity
Fatty acid-binding protein (Rat heart, Liver) (Glatz, J.F.C. (837) 57)

Biogenic amine
Inositol phosphate; cyclic AMP; Amine receptor; Adenosine (Guinea-pig brain) (Hollingsworth, E.B. (847) 207)

Biological activity
Anesthetic-membrane interaction; Amphipathic ion adsorption; Lipid bilayer; Zeta potential (Requena, J. (814) 191)

Biopsy
Oxidative metabolism; Cell culture (Human skeletal muscle) (Zuurveld, J.G.E.M. (844) 1)

Biotin
Vitamin transport; Thiamine; Binding protein (*L. casei*) (Henderson, G.B. (813) 201)

Biotin enzyme
Carboxylase (Rat liver mitochondria) (Oei, J. (840) 1)

Biotin transport
Affinity labeling; Kinetics (*E. coli*) (Piffeteau, A. (816) 77)

Biphasic substrate kinetics
(Na^+ + K^+)-ATPase; Steady-state kinetics; Cation binding; Multicycle kinetic model (Bovine brain) (Plesner, I.W. (818) 235)

Bipyridinium compound
Heteropentalene; Ferredoxin-$NADP^+$ oxidoreductase; Reduction potential; Electron transfer (Camilleri, P. (810) 385)

Bis(diacylglycero)phosphate
Stereoisomer synthesis; Lyso derivative (Dang, Q.Q. (834) 124)

Bis(mannose) analog
Insulin dependence; Carbohydrate transport (Erythrocyte, Adipocyte) (Midgley, P.J.W. (812) 33)

Hexose transport; Hydrophobic interaction (Rat adipocyte, Human erythrocyte) (Parkar, B.A. (814) 103)

2,3-Bisphosphoglycerate
Spectrin aggregation; Membrane skeleton; Erythrocyte membrane; Spermine; ESR (Farmer, B.T. II (821) 420)

Bisphosphoglycerate synthase-phosphatase
Phosphoglycerate mutase (Pig skeletal muscle) (Pons, G. (842) 56)

Black lipid membrane
Halorhodopsin; CL^- transport; Blue light effect; Photochromism (*Halobacterium*) (Hegemann, P. (819) 195)

Cytotoxin (PACT); Leak permeability; Erythrocyte membrane (Rat) (Weiner, R.N. (820) 173)

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Blocking group
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Blood-brain barrier
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Blood clotting
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Blood coagulation
Vitamin K; Warfarin; Coumarin; Carboxylase; Osteocalcin (Ulrich, M.M.W. (830) 105)

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Blue-green alga
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Blue Sepharose CL-6B
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Bradykinin-inactivating activity
Bradykinin; Aminopeptidase; Prolyl endopeptidase (Guinea-pig neutrophil) (Nagaoka, I. (847) 67)

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Bromoperoxidase purification
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Fe^{2+} transport; Hypoxia; Kinetics (Mouse intestine) (Simpson, R.J. (814) 381)

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Aging; Glucose transport; Na^+ transport; Valinomycin (Rat intestine) (Lindi, C. (816) 411)

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***t*-Butyl hydroperoxide**
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C1q
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(Ca^{2+} + Mg^{2+})-ATPase; Calmodulin; Compound 48/80; Kinetics; Erythrocyte membrane (Rossi, J.P.F.C. (816) 379)

(Ca^{2+} + Mg^{2+})-ATPase; Cystic fibrosis; Ca^{2+} + La^{3+}-dependent phosphoenzyme; Phosphoenzyme; Erythrocyte (Human) (Muallem, S. (819) 143)

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Carbonyl reductase
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Cholesteryl ester transfer protein
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Triacylglycerol; Apolipoprotein; Lipoprotein lipase; Diabetes (Rat muscle, liver, adipose) (Levy, E. (834) 376)

Chymopapain
Papain; Proteinase; Papaya proteinase III; Enzyme kinetics (Papaya) (Zucker, S. (828) 196)

Chymosin
x-Casein; Pepsin; Rennet; Pepstatin; Clotting (Brinkhuis, J. (832) 331)

Chymotrypsin
Active form (Porcine pancreas) (Iio-Akama, K. (831) 249)

Chymotrypsin binding
α_2-Macroglobulin; Ovomacroglobulin; Structural change; Stoke radius; Methylamine treatment (Nishigai, M. (831) 236)

Chymotrypsin treatment
Glycocorticoid receptor; RNA inhibition; DNA binding; RNA binding site (Rat liver) (Tymoczko, J.L. (846) 193)

α-Chymotrypsin activity
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α-Chymotrypsin kinetics
Water-in-oil emulsion; Microemulsion; Surfactant (Fletcher, P.D.I. (832) 204)

Chymotryptic cleavage
$(Na^+ + K^+)$-ATPase; Ligand binding; Cation exchange (Pig kidney) (Jørgensen, P.L. (821) 319)

Cicletanide
Eicosanoid release; Arachidonate; Ion ratio; Ca^{2+} dependence (Rat macrophage) (Elliott, G.R. (837) 213)

CIDEP
Electron spin polarization; Photosystem II; ESR (Spinach chloroplast) (Hoff, A.J. (808) 343)

Ciliatine
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Circular dichroism
Bacterial photosynthesis; Energy transfer; Bacteriochlorophyll *b* (*Ectothiorhodospira*) (Steiner, R. (807) 278)

Bacterial photosynthesis; Reaction center; Polarized infrared spectroscopy; α-Helix orientation (*Rps. viridis, Rps. sphaeroides*) (Nabedryk, E. (809) 271)

Protein-lipid interaction; α-Lactalbumin; Lipid solubilization; Dimyristoylphosphatidylcholine; Fluorescence polarization (Hanssens, I. (817) 154)

Apocytochrome *c*; Lipid protein interaction; Tryptophan fluorescence; Fluorescence; Differential scanning calorimetry; ESR (Rietveld, A. (818) 398)

Bacteriorhodopsin; Purple membrane; Anesthetic-membrane interaction; Retinal isomer (*H. halobium*) (Nishimura, S. (818) 421)

Polyene antibiotic; Etruscomycin; Phosphatidylcholine vesicle; Membrane permeability; Fluorescence; ^{31}P-NMR (Capuozzo, E. (820) 63)

Anesthetic; Gramicidin; Hydrogen bond; Ion channel; Infrared spectroscopy (Buchet, R. (821) 8)

DNA structure; Structural transition; Tb^{3+}; Electric dichroism (Gersanovski, D. (824) 313)

RNA conformation; Z-conformation; Oligonucleotide; Salt dependence; ^{31}P-NMR (Adamiak, R.W. (825) 345)

Lysozyme; Tertiary structure; Protein unfolding (Hen egg white) (Gałat, A. (827) 221)

Diphtheria toxin; Exotoxin A (*P. aeruginosa*) (Collins, C.M. (828) 138)

Hemocyanin; Subunit dissociation (*Busycon*) (Herskovits, T.T. (828) 278)

Acetylcholinesterase; Secondary structure; Ligand binding domain (*T. californica*) (Manavalan, P. (829) 365)

Lipoxygenase inactivation; Methionine oxidation; Lipid metabolism; Enzyme inhibitor (Rabbit reticulocyte) (Ludwig, P. (830) 136)

Calmodulin; Calorimetry; Conformation change; Thermal denaturation (Bovine brain) (Permyakov, E.A. (830) 288)

Nonhistone chromatin protein; High mobility group protein; Frictional coefficient (Chicken erythrocyte) (Land, M.D. (831) 207)

α-helix content; Peptide synthesis; Signal peptide (Reddy, G.L. (831) 340)

γ-Crystallin; Fluorescence spectroscopy; Secondary structure; Tertiary structure (Calf lens) (Mandal, K. (832) 156)

Crystallin; Protein conformation; Fluorescence (Human lens) (Liang, J.N. (832) 197)

DNA structure; Putrescylthymine (Phage ΦW-14) (Spetter, S. (838) 312)

***Cis-trans* isomerase**
Protein refolding; Proline isomerization; Isomerase (Fischer, G. (828) 39)

Citraconic anhydride
α-Crystallin; Chemical modification; Quaternary structure (Bovine lens) (Bindels, J.G. (828) 255)

Citrulline synthesis
Pregnancy; Lactation; Carbamoyl-phosphate synthetase; Ornithine carbamoyltransferase; *N*-Acetylglutamate synthase (Rat) (Rabier, D. (838) 1)

Alloxan; Diabetes (Rabbit liver mitochondria) (Bryła, J. (839) 90)

Cl^-
Photosystem II; Oxygen evolution; Mn^{2+}; Ca^{2+} (Spinach) (Kuwabara, T. (806) 283)

Amino acid transport; Kinetics; Anion effect; Brush-border vesicle (*D. labrax* intestine) (Bogé, G. (820) 122)

Myeloperoxidase; Hypochlorite; Hydrogen peroxide; Radical scavenger (Winterbourn, C.C. (840) 204)

Membrane potential; cyclic AMP; Bicarbonate ion (Hepatocyte) (Bradford, N.M. (845) 10)

Cl^- effect
Oxygen evolution; Photosystem II; S-state transition; Thermoluminescence (Ono, T.-a. (806) 331)

Photosystem II; Electron transport; Ca^{2+} effect; Oxygen evolution (Spinach chloroplast) (Carpentier, R. (808) 288)

Thylakoid membrane; Photosystem II; Water splitting; Oxygen evolution (Homann, P.H. (809) 311)

Photosystem II; S state; NMR; Oxygen evolution (Mangrove) (Preston, C. (810) 388)

Heme-apoprotein interaction; Resonance Raman; Oxyhemoglobin structure; Chemical modification (Wedekind, D. (830) 224)

Cl^- transport
ATP dependence; Intestinal transport (*Aplysia*) (Gerencser, G.A. (816) 415)

Halorhodopsin; Black lipid membrane; Blue light effect; Photochromism (*Halobacterium*) (Hegemann, P. (819) 195)

Clara cell
Secretory protein; Immunoblotting; Trypsin digestion (Rat lung) (Singh, G. (829) 156)

Clathrin
Proton transport; ATP dependence; Acidification (Brain vesicle) (Van Dyke, R.W. (812) 423)

Cleavage specificity
Nuclease S_2; Nuclease Bal 31; Spermine (Shishido, K. (826) 147)

Cloning
Keratin; mRNA isolation; Cell free translation; Nucleic acid sequence (Chicken) (Wilton, S.D. (824) 201)

repetitive DNA; Restriction enzyme analysis (Ceccherini-Nelli, L. (825) 89)

Neurofilament protein; Gene structure; Nucleic acid sequence (Julien, J.-P. (825) 398)

DNA replication; Replication origin; Secondary structure; Primase (Bacteriophage G4) (Sakai, H. (826) 30)

Clot formation
Actin; Fibrin protofibril; Semi-dilute solution (Janmey, P.A. (841) 151)

Clotting
κ-Casein; Chymosin; Pepsin; Rennet; Pepstatin (Brinkhuis, J. (832) 331)

CMP
Diacylglycerol; Phosphatidylcholine; CDPcholine (Safflower cotyledon) (Slack, C.R. (833) 438)

Diacylglycerol; CDPdiacylglycerol; Arachidonate (Rabbit cerebral cortex) (Baker, R.R. (835) 221)

CNBr cleavage
Histone H1; Peptide analysis; Tertiary structure; Chromatosome reconstitution (Rat liver) (Mitchell, T.C. (832) 235)

CNBr fingerprint
Apolipoprotein A-I; HDL; Monoclonal antibody (Human plasma) (Weech, P.K. (835) 390)

Co^{2+}
Fluorescence quenching; Membrane/water interface; Membrane permeability; Ionophore X537A; Transmembrane flux; Fluorescent probe; Lipid vesicle (Homan, R. (812) 485)

Unilamellar vesicle; Fluorescence labeling; Membrane surface potential; Fluorescence quenching; Bilayer defect (Morris, S.J. (818) 365)

Ribulose-1,5-bisphosphate carboxylase; EPR; Cu^{2+} (*R. rubrum*) (Styring, S. (832) 113)

Thermal denaturation; Angiotensin-converting enzyme; Chelator (Velletri, P.A. (839) 71)

Co(II) derivative
Nitrite reductase; Copper protein; Magnetic circular dichroism (*Alcaligenes*) (Suzuki, S. (827) 190)

CO_2
Chlorophyll fluorescence; Fluorescence quenching; Oxygen; Photosystem II (Pea leaf) (Bradbury, M. (806) 357)

CO_2 effect
Membrane potential; HCO_3^- conductance; Pressure effect (Bullfrog antrum) (Schwartz, M. (816) 251)

CO_2 fixation
Protein synthesis; Chlorophyll synthesis; Chloroplast development (*Euglena* chloroplast) (Gómez-Silva, B. (808) 448)

Coagulation
Proteinase inhibitor; α_2-Macroglobulin; Exocytosis (*Limulus* blood cell) (Armstrong, P.B. (827) 453)

Co-antioxidant
Vitamin C; Vitamin E; Lipid peroxidation; Ascorbate-α-tocopherol synergism; Antioxidant (Doba, T. (835) 298)

Cobalamin
Transcobalamin II synthesis (Human hepatocyte) (Hall, C.A. (838) 387)

Cobalamin absorption
Lysosomal localization; Cyanocobalamin (Dog ileum) (Horadagoda, N.U. (838) 206)

Cobalamin-binding protein
Haptocorrin (Rat saliva) (Nexø, E. (838) 264)

Cobalt
Hydroxyl radical; EDTA (Moorhouse, C.P. (843) 261)

Coenzyme A
Acetyl-CoA acetyltransferase; Chemical modification; Ketone body synthesis (Rat liver mitochondria) (Quandt, L. (829) 103)

Acetyl-CoA acetyltransferase; Ketone body synthesis; Ketone body degradation (Rat mitochondria) (Huth, W. (830) 274)

Fatty acid metabolism; Brown adipose mitochondria; β-oxidation; Erucic acid (Rat mitochondria) (Alexson, S.E.H. (834) 149)

Coenzyme Q-membrane interaction
Ubiquinone; Ubiquinol; Phospholipid bilayer; Differential scanning calorimetry (Aranda, F.J. (820) 19)

Colchicine
Water permeability; Cytochalasin B; Oxytocin; Freeze-fracture (Frog urinary bladder) (Parisi, M. (817) 333)

Cytochalasin B; Monensin; Trifluoperazine; Liposome uptake (Kupffer cell) (Dijkstra, J. (845) 34)

Colchicine infusion
Protein secretion; Proline content (Goat mammary gland) (Groves, M.L. (844) 105)

Cold adaptation
NADH oxidation; Thyroid gland preparation (Rat liver mitochondria) (Kirillova, G.P. (806) 75)

Colipase
F_{ab} fragment; Immunoinactivation; Immunological cross-reactivity; Antigenic determinant (Porcine pancreas) (Bosc-Bierne, I. (827) 109)

Collagen
Platelet aggregation; Fibrinogen binding (Human platelet) (Legrand, C. (812) 802)

Metalloproteinase; Gelatin (Bone) (Murphy, G. (831) 49)

Proteoglycan; Low-angle X-ray diffraction (Articular cartilage) (Ronzière, M.-C. (842) 170)

Collagenase
Glucocorticoid; Gene expression; Hormone action (Human skin fibroblast) (Bauer, E.A. (825) 227)

Estrogen receptor; Progestin receptor; Molybdate; Percoll (Vagina, Mouse) (Uchima, F.-D.A. (841) 135)

Trypsin; Membrane lipid; Mechanical harvesting (Kirkpatrick, C.J. (846) 120)

Interleukin 1; Prostaglandin E_2 (Human epidermis) (Hauser, C. (846) 350)

Collagenase synthesis
Macrophage factor; Collagen degradation; Interleukin 1 (Fibroblast) (Huybrechts-Godin, G. (846) 51)

Collagen crosslink
Pyridinoline; Ozone; Ultraviolet radiation (Fujimori, E. (828) 104)

Collagen degradation
Macrophage factor; Collagenase synthesis; Interleukin 1 (Fibroblast) (Huybrechts-Godin, G. (846) 51)

Collagen synthesis
Procollagen; Translation; Protein synthesis (Reticulocyte lysate) (Goldenberg, R. (826) 101)

Gene expression; Fraser mutation (Mouse skin) (Kern, P. (826) 174)

Magnetic field (Fibroblast) (Murray, J.C. (838) 98)

Ascorbate requirement; Proline hydroxylation (Chick embryo) (Roach, H.I. (842) 139)

Somatomedin; Post-receptor action (Chondrocyte) (Willis, D.H. Jr. (844) 72)

Collagen type IV synthesis
Basement membrane; Glycosaminoglycan; Thyrotropin (Porcine thyroid cell) (Wadeleux, P. (846) 257)

Colligative theory
Freezing damage; Membrane protein; Lyotropy (Spinach thylakoid) (Hincha, D.K. (812) 173)

Colloidal silica
HeLa cells; Plasma membrane domain isolation; Cell adhesion; Gelatin (Mason, P.W. (821) 264)

Colloid osmotic hemolysis
pH dependence; Hemolysis; Nystatin; Kinetic model (Human erythrocyte) (Pooler, J.P. (812) 193)

Photohemolysis; Hemolysis (Human erythrocyte) (Pooler, J.P. (812) 199)

Columbinic acid
Epidermal permeability barrier; Essential fatty acid deficiency; Acylceramide; Sphingolipid; Linoleic acid; Arachidonic acid (Rat skin) (Hansen, H.S. (834) 357)

Essential fatty acid deficiency; Epidermal water loss (Rat skin) (Elliott, W.J. (835) 158)

Compactin
DNA repair; Replication; Ultraviolet irradiation (*Daucus* protoplast) (Eastwood, A.C. (826) 13)

Cell density; LDL; Lipoprotein catabolism (Jensen, E. (834) 279)

Compartmentation
^{31}P-NMR (*Fasciola*) (Matthews, P.M. (845) 178)

Competence mutant
DNA nuclease; Pleiotropic effect (*B. subtilis*) (Barberio, C. (842) 184)

Complement component
C1q; Immunoglobulin; Arginine residue; Chemical modification (Human) (Comis, A. (842) 45)

Complement inhibitor
High-density lipoprotein; Apolipoprotein (Erythrocyte) (Packman, C.H. (812) 107)

Complex III
Respiration; ESR; Magnetic circular dichroism; Inhibitor (Bovine heart mitochondria) (Tsai, A.-L. (806) 418)

Light scattering; Electron transport; Ubiquinol:cytochrome *c* oxidoreductase (Bovine heart mitochondria) (Valpuesta, J.M. (807) 96)

Ubiquinol:cytochrome *c* oxidoreductase; Cytochrome *c*; Antimycin (Bovine heart) (Van Keulen, M.A. (808) 32)

Compound II
Heme protein; Resonance Raman; Peroxidase; Compound X (Horseradish) (Terner, J. (828) 73)

Compound X
Heme protein; Resonance Raman; Peroxidase; Compound II (Horseradish) (Terner, J. (828) 73)

Compound 48/80
Ca^{2+} pump; (Ca^{2+} + Mg^{2+})-ATPase; Calmodulin; Kinetics; Erythrocyte membrane (Rossi, J.P.F.C. (816) 379)

Polycation; Membrane permeability; Outer membrane; Ion-selective electrode; Tetraphenylphosphonium ion uptake (*E. coli*) (Katsu, T. (818) 61)

Computer model
Membrane protein; Lipid bilayer; Lateral diffusion (Pink, D.A. (818) 200)

Computer simulation
Lipid/water interface; Monte Carlo method (Scott, H.L. Jr. (814) 327)

Concanavalin A
Platelet membrane; Platelet-fibrin interaction; Rheological technique; Platelet contractile force; Blood clotting (Chow, T.W. (812) 512)

Membrane potential; Ionophore A23187; Fluorescence (Human lymphocyte, Rat thymocyte) (Gukovskaya, A.S. (815) 433)

Concanavalin A inhibition
5'-Nucleotidase; Transmembrane modulation; Cytoskeleton (Craik, J.D. (845) 27)

Concentration gradient
Myelin figure; Phosphatidylcholine; Growth; Diffusion (Sakurai, I. (815) 149)

Condensation
Hopanoid; ω-Cyclohexane fatty acid; Membrane permeability; Membrane adaptation; Acidophile (*B. acidocaldarius*) (Kannenberg, E. (814) 179)

Conductance inhibition
Membrane potential; K^+ conductance; $(Na^+ + K^+)$-ATPase; Ba^{2+}effect (Frog cornea) (Carrasquer, G. (819) 23)

Conducting pore
Iturin A; Lipopeptide antibiotic; Lipid dependence; Ion selectivity (Maget-Dana, R. (815) 405)

Conduritol B epoxide
α-Glucosidase; Maltase (Yang, S.-j. (828) 236)

Conformational analysis
Propranolol-membrane interaction; Dipalmitoylphosphatidylcholine (Brasseur, R. (815) 341)

Urocanase; Calorimetry; Temperature effect (*P. putida*) (Hug, D.H. (830) 101)

Conformational change
Sarcoplasmic reticulum; Rotational diffusion; $(Ca^{2+} + Mg^{2+})$-ATPase; Phosphorescence (Rabbit skeletal muscle) (Restall, C.J. (813) 96)

Glucose dehydrogenase; Subunit dissociation (*B. megaterium*) (Maurer, E. (827) 381)

Fructose-1,6-bisphosphatase; Thiol content; Enzyme activation (Aragnol, D. (829) 275)

Phospholipase A_2; Enzyme-substrate interaction; Chemical modification (Bee venom) (Camero Diaz, R.E. (830) 52)

4-Aminobutyrate aminotransferase; Pyridoxal phosphate (Choi, S.-Y. (830) 120)

Myosin rod; Chemical modification; Mg^{2+} effect; Sulfhydryl group (Rabbit skeletal muscle) (Pliszka, B. (830) 304)

Apotryptophanase; Monovalent cation; Sulfhydryl group; Temperature jump (*E. coli*) (Lachmann, G. (831) 275)

Conformational energy
Alkanol-phospholipid interaction; Dipalmitoylphosphatidylcholine; Lipid monolayer; Lipid/water interface (Brasseur, R. (814) 227)

Conformational energy calculation
Proline isomerization; RNAase A (Ihara, S. (830) 109)

Conformational transition
$(Na^+ + K^+)$-ATPase; Chemical modification (*S. acanthias* rectal gland) (Skou, J.C. (819) 119)

Conformation change
Calmodulin; Calorimetry; Circular dichroism; Thermal denaturation (Bovine brain) (Permyakov, E.A. (830) 288)

Congenital deficiency
Kininogen; High-molecular-weight kininogen purification; Immunochemistry (Rat plasma) (Reis, M.L. (831) 106)

Contact angle
Glycoprotein; Cell surface; Surface free energy; Scanning electron microscopy; Hypoxia (Chinese hamster lung fibroblast) (Johnstone, S.A. (815) 159)

Contour length
extrachromosomal DNA; circular DNA; Copy number (*E. gracilis*) (Cook, J.R. (824) 80)

Contraceptive
Spermatozoa-membrane interaction; Phospholipid monolayer; Gossypol; Phospholipase A_2 (Vainio, P. (814) 405)

Copper(II)
Laccase; ENDOR (*R. vernicifera*) (Desideri, A. (831) 8)

Copper protein
Nitrite reductase; Co(II) derivative; Magnetic circular dichroism (*Alcaligenes*) (Suzuki, S. (827) 190)

Blue copper oxidase; ESR (*N. europaea*) (DiSpirito, A.A. (827) 320)

Nitrite reductase; ESR (*Rps. sphaeroides*) (Michalski, W.P. (828) 130)

Plantacyanin; ^{1}H-NMR; Redox potential; Plastocyanin (Nerissian, A.M. (830) 195)

Copy number
extrachromosomal DNA; circular DNA; Contour length (*E. gracilis*) (Cook, J.R. (824) 80)

Co-regulation
Dihydrofolate reductase; Thymidylate synthase B; Trimethoprim resistance (*B. subtilis*) (Myoda, T.T. (824) 99)

Corrin ring
Vitamin B-12 synthesis; Amidation (*C. tetanomorphum*) (Ford, S.H. (841) 306)

Corticosterone
Lipoprotein uptake; LDL; Cholesterol synthesis (Rat, hamster and rabbit adrenal gland) (Spady, D.K. (836) 167)

Cortisol
Lung surfactant; Phosphatidylcholine; Fatty acid; Palmitoleic acid (Fetal rabbit) (Longmuir, K.J. (833) 135)

Glycerophospholipid; Phospholipid synthesis; Lamellar body (Fetal rabbit lung) (Mendelson, C.R. (834) 85)

Cholesteryl ester; Acyl-CoA:cholesterol acyltransferase (Bovine adrenal cortex) (Jamal, Z. (834) 230)

Phosphatidylcholine synthesis; Dihydrotestosterone; Lung surfactant; Fibroblast-pneumocyte factor (Fetal rat lung fibroblast, Type II cell culture) (Torday, J.S. (835) 23)

Cortisol regulation
Angiotensinogen synthesis (Rat plasma) (Voigt, J. (842) 100)

Cotransport
Membrane potential; Surface potential; Transport kinetics; Carrier transport (Barts, P.W.J.A. (813) 51)

Coumaric acid
Glucoside transport; Tonoplast membrane; vacuolar pH (*M. alba*) (Rataboul, P. (816) 25)

Coumarin
Vitamin K; Warfarin; Carboxylase; Osteocalcin; Blood coagulation (Ulrich, M.M.W. (830) 105)

Coumarin derivative
5-HETE; Dihydroxycoumarin; Hydroxyeicosanoic acid; Arachidonate metabolism (Rat leukocyte) (Kimura, Y. (834) 224)

Counterflow
Glucose transport; Transport asymmetry (Human erythrocyte) (Naftalin, R.J. (820) 235)

Coupling
Non-equilibrium thermodynamics; Oxidative phosphorylation; Adenine nucleotide (Rat liver) (Soboll, S. (807) 245)

Coupling factor
ATP synthesis; Membrane reconstitution; Proton gradient (Chloroplast) (Schmidt, G. (808) 46)

Sulfolipid; Lipid-protein interaction (*Dunaliella*, Spinach) (Pick, U. (808) 415)

Thylakoid membrane; Nucleotide binding; Photoaffinity label; Photophosphorylation (Spinach chloroplast) (Czarnecki, J.J. (809) 51)

ATPase; Nucleotide binding; Phosphorothioate analog (Spinach chloroplast) (Bickel-Sandkötter, S. (809) 117)

Rotational mobility; Domain flexibility; Photophosphorylation; Enzyme reconstitution (*Rps. sphaeroides*) (Casadio, R. (809) 215)

Freezing damage; Ferredoxin-NADP$^+$ reductase; Plastocyanin; Thylakoid membrane (Spinach thylakoid) (Hincha, D.K. (809) 337)

mitochondrial F_1-ATPase; chloroplast CF_1-ATPase (Pea) (Horak, A. (810) 310)

N-Ethylmaleimide; Photophosphorylation; ATPase (*D. salina*) (Selman-Reimer, S. (810) 325)

Coupling protein
Nitrite reductase; Ferredoxin; Enzyme-ferredoxin interaction (Spinach) (Hirasawa, M. (830) 173)

Creatine kinase
Reaction intermediate; Phosphate transfer; NMR; Isotope exchange (Brindle, K.M. (829) 188)

Chemical modification; Tryptophan residue (Rabbit muscle) (Zhou, H.-M. (830) 59)

Enzyme catalysis; ^{31}P-NMR (Avian skeletal muscle) (Smith, M.B. (846) 174)

ESR; Free radical; Muscle metabolism (Jackson, M.J. (847) 185)

Creatine kinase kinetics
ATP turnover; β-Guanidinopropionic acid; Phosphocreatine; Energy transduction (Rat heart) (Shoubridge, E.A. (847) 25)

Cresol red
Photosystem I; Neutral red; Surface charge; Proton flux (Spinach subchloroplast vesicle) (De Wolf, F.A. (809) 204)

Critical micelle concentration
CDPdiacylglycerol; Liponucleotide; Structural transformation; Micelle-free molecule equilibration; Lipid vesicle (Yang, V.C. (834) 364)

Cross-bridge motion
Striated muscle; Myofilament; Proteinase inhibitor; Quasi-elastic light scattering (Fan, S.-F. (827) 101)

Deuterium oxide; Thick filament (*Limulus* striated muscle) (Fan, S.-F. (830) 333)

Cross-linking
Cytochrome *P*-450; Chemical modification; Adrenodoxin; Electron transfer (Chashchin, V.L. (828) 313)

Cross-over point
Proton translocation; Secretion inhibitor; Acid secretion (Frog gastric mucosa) (Ekblad, E.B.M. (817) 147)

Cross relaxation
Bound water; Proton relaxation; β-Lactoglobulin; Protein structure state; NMR (Pessen, H. (828) 1)

Cryoadaptation
Desaturation; Membrane fluidity; Thermoadaptation (*Tetrahymena*) (Kasai, R. (836) 397)

Cryo-electron microscopy
Membrane structure; Liposome; Electron microscopy; Electron diffraction (Lepault, J. (820) 315)

Cryofixation
Lipidic particle; Membrane fusion; Phospholipid bilayer; Electron microscopy (Verkleij, A.J. (812) 591)

Cryokinetics
Lactate dehydrogenase; Protein structure; Time-resolved conformational change; Chemical modification (Clarke, A.R. (829) 397)

β-Cryptoxanthin
Xanthophyll biosynthesis; β-Carotene hydroxylation; Monooxygenase; 3-Hydroxyechinenone (*Aphanocapsa*) (Sandmann, G. (843) 73)

Crystallin
Protein conformation; Circular dichroism; Fluorescence (Human lens) (Liang, J.N. (832) 197)

Crystallin gene
Nucleotide sequence; Sequence homology; Evolution (Rat lens) (Den Dunnen, J.T. (824) 295)

***α*-Crystallin**
Chemical modification; Citraconic anhydride; Quaternary structure (Bovine lens) (Bindels, J.G. (828) 255)

***γ*-Crystallin**
Fluorescence spectroscopy; Circular dichroism; Secondary structure; Tertiary structure (Calf lens) (Mandal, K. (832) 156)

CTP synthetase regulation
Glutamine; Stoichiometry; Nucleotide pool (Ehrlich ascites tumor cell) (Kizaki, H. (829) 34)

Cu^{2+}
Photosensitization; Porphyrin-Cu^{2+} complex; Hematoporphyrin derivative (Human erythrocyte) (Van Steveninck, J. (821) 1)

Ribulose-1,5-bisphosphate carboxylase; EPR; Co^{2+} (*R. rubrum*) (Styring, S. (832) 113)

Cu deficiency
Cytochrome *c* oxidase; Mitochondrial membrane; Fatty acid composition (Rat liver mitochondria) (Lawrence, C.B. (809) 351)

Oxidative phosphorylation; Respiration; Cytochrome *c* oxidase (Rat liver mitochondria) (Davies, N.T. (809) 362)

Cubic phase
Phase equilibrium; Galactolipid; Chloroplast lipid; ^{2}H-NMR; Monogalactosyldiacylglycerol; Digalactosyldiacylglycerol (Brentel, I. (812) 816)

Culture time
Lectin binding (Type II cell) (Dobbs, L.G. (846) 155)

Cumene hydroperoxide
Lipid peroxidation (Rat splenocyte) (Shimura, J. (845) 43)

Cyanide
^{15}N-NMR; Peroxidase; Heme coordination structure; Chemical shift (Behere, D.V. (832) 319)

Cyanide binding
Cytochrome c peroxidase; Stopped-flow kinetics (*P. aeruginosa*) (Rönnberg, M. (828) 67)

Cytochrome c'; Heme coordination (*C. vinosum*) (Kassner, R.J. (831) 155)

Cyanine dye
Membrane potential; Amino acid transport; Proline transport; Transport inhibitor (Rabbit intestine) (Wright, E.M. (818) 271)

Cyanobacterium
Permeaplast; Electron transport; Chlorophyll fluorescence (*A. nidulans*) (Papageorgiou, G.C. (807) 230)

K^+ transport; Cell turgor (*Anabaena, Synechocystis*) (Reed, R.H. (812) 155)

Na^+ transport; Membrane permeability; Hyperosmotic stress; Kinetics (*Synechocystis*) (Reed, R.H. (814) 347)

Phase transition; Blue-green alga; Membrane lipid (*A. nidulans*) (Mannock, D.A. (821) 153)

NAD(P)H:quinone oxidoreductase purification (*M. aeruginosa*) (Viljoen, C.C. (827) 247)

Cyanocobalamin
Lysosomal localization; Cobalamin absorption (Dog ileum) (Horadagoda, N.U. (838) 206)

Cyclic electron transport
P-700 turnover; Linear electron transport; DBMIB; DNP-INT (Rurainski, H.J. (809) 452)

Cyclic nucleotide
Polyamine; Protein kinase (Mouse mammary) (Leiderman, L.J. (844) 95)

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Chronoamperometry; Electron transfer; Redox protein; Cytochrome *c* (Cass, A.E.G. (828) 51)

ω-Cyclohexane fatty acid
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Chromatin structure; Actinomycin D; Heat-shock locus; Heat induction (Han, S. (825) 154)

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Cystinosis
Cystine transport; Glutamate transport; pH dependence (Human fibroblast) (Forster, S. (814) 398)

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Cytochrome a_1
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Cytochrome b_6-*f* complex
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Cytochrome *c* reductase
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Cytochrome *c* oxidase
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Cytochrome *f*
Cytochrome *c*-553; Photosystem I; Electron transport (*Synechococcus* sp.) (Nanba, M. (808) 39)

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Cytochrome *b*-563; Rieske iron-sulfur protein; Thylakoid membrane (Pea, Spinach chloroplast) (Mansfield, R.W. (809) 435)

Cytochrome oxidase
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Cytochrome P-450$_{17\alpha lyase}$
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Cytochrome structure
Redox property; Cytochrome *b*-562; Ferricytochrome (*E. coli*) (Moore, G.R. (829) 83)

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Diacylglycerol lipase
Diacylglycerol kinase (Rat brain microvessel) (Hee-Cheong, M. (833) 59)

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rDNA spacer
rDNA heterogeneity; repetitive DNA (*V. faba*) (Kato, A. (825) 411)

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Ethylation
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Exoribonuclease
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F^-
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Ferritin receptor
Ferritin binding; Subunit composition; Carbohydrate moiety (Rat liver) (Mack, U. (843) 164)

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Freeze-thaw
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Fructose 2,6-bisphosphate
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Galactolipid semisynthesis
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Galactolipid synthesis
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Ghost volume
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Glucosylceramide
Glucosylceramidase activator; Activator protein (Human placenta) (Vaccaro, A.M. (836) 157)

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Glycerophosphoinositol phosphodiesterase
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Herbicide mutant
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Intestinal resection
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K99 fimbriae
K88 fimbriae; Adhesin; Chemical modification (*E. coli*) (Jacobs, A.A.C. (832) 148)

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Malonate decarboxylase; Acetyl-CoA; Acyl-CoA; Enzyme cycling; Acetate kinase (Takamura, Y. (834) 1)

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Methotrexate-glycerophosphorylethanolamine analog
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Nucleotide binding
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Phosphomevalonate synthesis
Phosphomevalonate kinase (Pig liver) (Lee, C.S. (839) 83)

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Phosphorylase *b* purification
Phosphorylase *b* crystallization (Pig muscle) (Oikonomakos, N.G. (832) 248)

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Plasmalogenase
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Amino acid sequence; *N*-Glycosylation; Kringle 4 domain (Chicken) (Gyenes, M. (832) 326)

Plasminogen activator
Retinoid; Synovial factor; Cartilage resorption (Human chondrocyte) (Meats, J.E. (838) 161)

Ornithine decarboxylase; Phorbol ester; Enzyme induction (Rat liver) (Buckley, A.R. (841) 127)

Plasminogen activator purification
Monoclonal antibody (Human tissue) (Einarsson, M. (830) 1)

Plastocyanin
Cytochrome *c*; Electron transfer; NMR; Protein-protein interaction (King, G.C. (806) 262)

Electron transport; Chemical modification; Nitrotyrosine (Spinach, Poplar, Lettuce) (Gross, E.L. (808) 437)

Freezing damage; Coupling factor; Ferredoxin-$NADP^+$ reductase; Thylakoid membrane (Spinach thylakoid) (Hincha, D.K. (809) 337)

Chemical modification; Electron transport; Redox potential; Protein conformation (Anderson, G.P. (810) 123)

Plantacyanin; Copper protein; ^{1}H-NMR; Redox potential (Nerissian, A.M. (830) 195)

Plastoquinone
Electron transfer; Cytochrome *b/f* complex; Cytochrome *b*; Photosystem I (*Chlorella*) (Joliot, P. (806) 398)

Electron transfer; Herbicide; Photosystem II (Spinach, Chenopod chloroplast) (Farineau, J. (808) 103)

Photosystem II; Water splitting; Proton transport; Uncoupler (Spinach chloroplast) (Arnon, D.I. (809) 167)

Photosystem II; Chlorophyll-protein complex; Cytochrome$_{b_6}$-*f* complex (*Lemna*) (Lam, E. (810) 106)

Platelet
Cholesterol exchange; Megakaryocyte; Erythrocyte (Human, Guinea pig) (Schick, B.P. (833) 281)

Cholesterol/phospholipid ratio; Cholesterol feeding; Megakaryocyte; Erythrocyte (Guinea pig) (Schick, B.P. (833) 291)

Phospholipase A_2 (Rat) (Aarsman, A.J. (837) 288)

Platelet activating factor
Lung surfactant; Phosphatidylcholine; Glyceryl ether (Dog lung) (Kumar, R. (836) 19)

Platelet aggregation; Membrane vesicle release; Thrombin; Phospholipid inhibition (Rabbit) (Kobayashi, T. (817) 307)

Alkylacyl-glycerophosphorylcholine; lyso-PAF-acether; Thrombin (Rabbit platelet) (Touqui, L. (833) 111)

Lyso-PAF; Arachidonic acid; Ether-linked lipid; Phospholipid molecular species; Alkylacetylglycerophosphocholine; Alkylacylglycerophosphocholine (Robinson, M. (837) 52)

Acetyl-CoA acetyltransferase; Ca^{2+} (Rat spleen microsome) (Gómez-Cambronero, J. (845) 511)

cyclic AMP; Protein kinase; Acetyl-CoA transferase (Rat spleen microsome) (Gómez-Cambronero, J. (845) 516)

Platelet activation
Cytoskeleton; Phospholipid asymmetry; Procoagulant activity (Comfurius, P. (815) 143)

Platelet aggregation
Collagen; Fibrinogen binding (Human platelet) (Legrand, C. (812) 802)

Membrane vesicle release; Thrombin; Platelet-activating factor; Phospholipid inhibition (Rabbit) (Kobayashi, T. (817) 307)

Membrane fluidity; *cis*-Unsaturated fatty acid; Fluorescence polarization (Bovine) (Kitagawa, S. (818) 391)

β-Adrenergic blocking drug; Calcium displacement; Membrane fluidity; ESR (Nosál, R. (821) 217)

Monovalent ion; ADP (Bovine) (Kitagawa, S. (840) 371)

Serotonin release; Electrochemistry (Marcenac, F. (840) 377)

Snake venom (Viper) (Ouyang, C. (841) 1)

Snake venom; Fibrinogen (Viper) (Teng, C.-M. (841) 8)

Arachidonic acid; Serotonin release; Prostaglandin endoperoxide; Thromboxane A_2 (Hashimoto, Y. (841) 283)

Light scattering; Rayleigh-Gans theory; Aggregation model (Human blood) (Hantgan, R.R. (846) 64)

Platelet contractile force
Concanavalin A; Platelet membrane; Platelet-fibrin interaction; Rheological technique; Blood clotting (Chow, T.W. (812) 512)

Platelet cytoskeleton
Ca^{2+}; Actomyosin; Proteinase (Human) (Yoshida, K.-i. (842) 62)

Platelet-derived growth factor
Autocrine growth control; Intracellular receptor (Endothelial cell) (Kazlauskas, A. (846) 405)

Platelet factor 4
Platelet-protein interaction (Human platelet) (Capitanio, A.M. (839) 161)

Platelet fatty acid
Aging; Plasma lipid; Prostacyclin release (Rat) (Suzuki, H. (836) 394)

Platelet-fibrin interaction
Concanavalin A; Platelet membrane; Rheological technique; Platelet contractile force; Blood clotting (Chow, T.W. (812) 512)

Platelet function
n - 3 Fatty acid; Lipid metabolism; Dietary fat (Rat) (Nordøy, A. (835) 491)

Platelet membrane
Concanavalin A; Platelet-fibrin interaction; Rheological technique; Platelet contractile force; Blood clotting (Chow, T.W. (812) 512)

Glycoprotein Ib; Glycocalicin; Cytoskeleton; Diamide; Dibucaine (Solum, N.O. (817) 249)

Phospholipid transfer protein; Phosphatidylinositol (George, P.Y. (836) 176)

Platelet-protein interaction
Platelet factor 4 (Human platelet) (Capitanio, A.M. (839) 161)

Pleiotropic effect
Competence mutant; DNA nuclease (*B. subtilis*) (Barberio, C. (842) 184)

Polar headgroup
Glycosphingolipid-phospholipid system; Self assembly; Lipid composition; Thermodynamic stability; Geometric stability (Maggio, B. (815) 245)

Polarized infrared spectroscopy
Bacterial photosynthesis; Reaction center; Circular dichroism; α-Helix orientation (*Rps. viridis, Rps. sphaeroides*) (Nabedryk, E. (809) 271)

Polaron
Hydrogen bond; Proton transfer; Proton channel; ATPase (Tomchuk, P.M. (807) 272)

Poly(A)-binding protein
Heat shock; Protein synthesis (Friend erythroleukemia cell) (Sunitha, I. (825) 214)

Polyacetylene
Photosensitizer; Thiophene; Liposome; Lipid peroxidation; Membrane permeability (McRae, D.G. (821) 488)

Poly(ADPribose) glycohydrolase
DNA intercalator; Histone (Tavassoli, M. (827) 228)

Poly(ADPribose) polymerase
Proteolysis; Nucleotide stimulation (Human lymphocyte) (Surowy, C.S. (832) 33)

Polyamine
RNA synthesis; RNA polymerase; Viral transcription (Vaccinia virus) (Moussatché, N. (826) 113)

Acetyltransferase; Enzyme induction; Methylglyoxal bis(guanylhydrazone) (Pegg, A.E. (842) 111)

Cyclic nucleotide; Protein kinase (Mouse mammary) (Læiderman, L.J. (844) 95)

Polyamine content
Dicyclohexylamine; Ornithine decarboxylase; Spermidine (Rat hepatoma) (Mitchell, J.L.A. (840) 309)

Polyamine γ-glutamyl derivative
Polyamine-protein complex (Rat liver) (Beninati, S. (841) 120)

Polyamine oxidase inhibition
Butanediamine derivative (Bolkenius, F.N. (838) 69)

Polyamine-protein complex
Polyamine γ-glutamyl derivative (Rat liver) (Beninati, S. (841) 120)

Polyamine synthesis
Ornithine decarboxylase purification; Enzyme inhibition (*T. pyriformis*) (Sklaviadis, T.K. (831) 288)

Methylthioadenosine phosphorylase; Transmethylation; Enzyme deficiency (Mammalian cell) (Iizasa, T. (844) 280)

Polyamine transport
Phosphate transport; Mitochondrial membrane; Spermine (Rat liver) (Toninello, A. (815) 399)

Adrenal cortex; Amino acid transport (Feige, J.J. (846) 93)

Poly(A) polymerase
Primer specificity (*Artemia*) (Roggen, E. (825) 21)

Germination; poly(A)$^+$ RNA; Host-pathogen interaction (Wheat) (Lakhani, S. (825) 303)

Polyaspartamide
Pinocytosis; Tyramine (Duncan, R. (840) 291)

Polybrene
Protein phosphatase; Enzyme inhibitor (Rabbit skeletal muscle) (Erdödi, F. (827) 23)

Polycation
Compound 48/80; Membrane permeability; Outer membrane; Ion-selective electrode; Tetraphenylphosphonium ion uptake (*E. coli*) (Katsu, T. (818) 61)

Polychlorinated biphenyl
Hydroxymethylglutaryl-CoA reductase; Cholesterol (Rat liver) (Jenke, H.-S. (837) 85)

Polyclonal antibody
Protein synthesis; Initiation factor; Monoclonal antibody; Radioimmunoassay (Mengod, G. (825) 169)

Polyene antibiotic
Etruscomycin; Phosphatidylcholine vesicle; Membrane permeability; Circular dichroism; Fluorescence; ^{31}P-NMR (Capuozzo, E. (820) 63)

Ion channel; Lipid bilayer (Grigorjev, P. (821) 297)

Poly(ethylene glycol)
Dielectric constant; Membrane fusion; Membrane structure (Arnold, K. (815) 515)

Poly(glutamic acid)
Rouleau formation; Cell aggregation; Shear rate; Polysaccharide (Human erythrocyte) (Maeda, N. (843) 128)

Poly(3-hydroxybutyrate)
D-(-)-3-Hydroxybutyrate oligomer hydrolase; Extracellular enzyme (*P. lemoignei*) (Nakayama, K. (827) 63)

Poly(L-glutamic acid)
Air/water interface; Monolayer conformation; pH dependence; Surface pressure (Shibata, A. (812) 587)

Polylysine
Myelin basic protein; Cerebroside sulfate; Phase transition; Differential scanning calorimetry; Spin label (Boggs, J.M. (816) 208)

Dipalmitoylphosphatidylglycerol bilayer; Phase transition; Fluorescence polarization (Carrier, D. (820) 131)

Polynucleotide phosphorylase; Halophile; Salt requirement (*V. costicola*) (Harry, K. (828) 29)

Poly(L-lysine)
Bilayer stability; Cardiolipin; Liposome; NMR (De Kruijff, B. (820) 295)

Polymyxin
Phase transition; Interdigitation; Membrane fluidity; Phospholipid; Spin label (Boggs, J.M. (816) 221)

Polynucleotide conformation
DNA synthesis; Reverse transcriptase; Template primer; Fluorodeoxynucleotide (Aoyama, H. (824) 225)

Polynucleotide kinase
Substrate specificity; Ion requirement (Rat testis) (Bosdal, T. (840) 280)

Polynucleotide phosphorylase
Halophile; Salt requirement; Polylysine (*V. costicola*) (Harry, K. (828) 29)

***O*-Polyoxyacyl ceramide**
O-Acylglucosyl ceramide; *O*-Acyl ceramide; Linoleic acid; Epidermal permeability barrier; Essential fatty acid (Pig skin) (Bowser, P.A. (834) 419)

Polypeptide microsequencing
Operon *ilvIH*; Acetohydroxy acid synthase; Minicell; Translational start site (*E. coli*) (Lago, C.T. (824) 74)

Polyphosphoinositide
Phosphatidylinositol-4-phosphate kinase (Liver, Plasma membrane) (Lundberg, G.A. (846) 379)

Polysaccharide
Rouleau formation; Cell aggregation; Shear rate; Poly(glutamic acid) (Human erythrocyte) (Maeda, N. (843) 128)

Polysome
tyrosinase-mRNA; mRNA isolation; Affinity chromatography (*Xenopus* oocyte) (Kidson, S.H. (824) 40)

Polytron
Nagarse method; Diabetes; Oxidative phosphorylation; Fatty-acid oxidation (Mouse heart mitochondria) (Kuo, T.H. (806) 9)

Polyunsaturated fatty acid
Fatty acid incorporation; Substrate specificity (Human skin fibroblast) (Banerjee, N. (835) 533)

Lipoxygenase specificity; Docosapolyenoic acid (Human platelet) (Guichardant, M. (836) 210)

Polyvinylamine-magnetite
Membrane isolation; Cell surface; Magnetic separation (*D. discoideum*) (Patton, W.F. (816) 83)

Poly(vinyl pyrrolidone)
Mitochondrial structure; Electron microscopy (Wrogemann, K. (806) 1)

Pore formation
Porin; Outer-membrane protein; Reconstitution (*Anabaena*) (Benz, R. (812) 286)

Membrane permeability; Electric field (Erythrocyte membrane) (Serpersu, E.H. (812) 779)

Pore kinetics
Patch clamp; Ion channel (Liebovitch, L.S. (813) 132)

Pore selectivity
Porin; Outer membrane; Membrane reconstitution; Planar bilayer; Protein 2 (Lc) (*E. coli*) (Lakey, J.H. (817) 208)

Pore size
Erythrocyte membrane; Water transport; Water permeability; Osmosis; Diffusion; Equivalent pore theory (Galey, W.R. (818) 425)

Porin
Outer-membrane protein; Reconstitution; Pore formation (*Anabaena*) (Benz, R. (812) 286)

DCCD-binding protein; Mitochondrial membrane; Membrane reconstitution (Pig heart) (De Pinto, V. (813) 230)

Outer membrane; Membrane reconstitution; Planar bilayer; Protein 2 (Lc); Pore selectivity (*E. coli*) (Lakey, J.H. (817) 208)

Porphyrin aggregation
Hematoporphyrin-membrane interaction; Liposome; Binding equilibrium; Cholesterol (Cohen, S. (813) 307)

Porphyrin-Cu^{2+} complex
Photosensitization; Cu^{2+}; Hematoporphyrin derivative (Human erythrocyte) (Van Steveninck, J. (821) 1)

Porphyrin-drug interaction
NMR; Antimalaria (Moreau, S. (840) 107)

Post mortem degradation
Inositol phospholipid; Triphosphoinositide; Freeze-blowing; Microwave irradiation (Rat brain) (Nishihara, M. (835) 415)

Post-receptor action
Somatomedin; Collagen synthesis (Chondrocyte) (Willis, D.H. Jr. (844) 72)

Posttranscriptional modification
RNA methylation; RNA synthesis; Thioguanosine incorporation; Mercaptopurine; HPLC (Mouse lymphoma cell) (Breter, H.-J. (825) 39)

Post-translational modification
Protein synthesis; Keratin; Protein phosphorylation; Protein acetylation (Gibbs, P.E.M. (824) 247)

mRNA microinjection; Secretion rate; Monoclonal IgG; Immunoglobulin G; Translation (*Xenopus* oocyte) (Hara, Y. (825) 188)

Post-translation processing
Radioimmunoassay; Somatostatin (Human, Pig) (Baldissera, F.G.A. (838) 132)

Potassium carrier-mediated transport
K^+ transport; Ouabain resistance; Bumetanide; Membrane potential (Mouse macrophage) (Bourrit, A. (817) 85)

Potential-sensitive dye
Peptide transport; Na^+ independence; Electrogenic transport; Brush-border membrane (Rabbit intestine) (Ganapathy, V. (816) 234)

Potentiometry
ESR; Respiratory chain; Cytochrome; Terminal oxidase (*E. coli*) (Hata, A. (810) 62)

EGTA; Affinity constant; Ca^{2+} buffering; Divalent cation (Smith, G.L. (839) 287)

Pr^{3+}
Model membrane; Membrane permeability; Phosphonic acid dialkyl ester; Molecular asymmetry; NMR (Hentschel, M. (812) 447)

Abscisic acid; Phospholipid bilayer; Membrane permeability; ^{31}P-NMR (Wassall, S.R. (815) 519)

α-Tocopherol location; Vitamin E; Phospholipid bilayer; ^{13}C-NMR; Gd^{3+} (Perly, B. (819) 131)

Prealbumin
Thyroxine-binding prealbumin; Immunochemistry (Rat serum) (Bleiberg, F. (828) 270)

Precursor polypeptide processing
Arylsulfatase A; Phosphorylation; Sulfation; Glycoprotein; Tumor marker (Waheed, A. (847) 53)

Pregnancy
Citrulline synthesis; Lactation; Carbamoyl-phosphate synthetase; Ornithine carbamoyltransferase; *N*-Acetylglutamate synthase (Rat) (Rabier, D. (838) 1)

Prenyltransferase
Decaprenyl pyrophosphate synthetase (*P. denitrificans*) (Ishii, K. (835) 291)

Prephenate dehydratase inhibition
Chorismate mutase; Bifunctional enzyme; Tertiary structure (*E. coli*) (Ma, K.H.C. (827) 1)

Pressure
Phospholipid bilayer; Cholesterol; Rotational motion; Perylene; Fluorescence polarization (Chong, P.L.-G. (813) 253)

Integral membrane protein; Membrane shedding (Erythrocyte membrane) (Deckmann, M. (821) 334)

Lung surfactant; Microviscosity; Phase transition; Liquid dynamics; Fluorescence polarization (Rat) (Barkai, G. (834) 103)

Pressure effect
Membrane potential; HCO_3^- conductance; CO_2 effect (Bullfrog antrum) (Schwartz, M. (816) 251)

Myelin proteolipid protein; Protein aggregation; Molecular weight determination; Membrane protein (Gow, A. (828) 383)

Presynaptic neurotoxin
Amino acid sequence; Phospholipase A_2 (Snake venom) (Ritonja, A. (828) 306)

Presynaptic plasma membrane fragment
Choline transport; Transport protein; Membrane reconstitution; Electric organ (*T. marmorata*) (Ducis, I. (815) 109)

Primary process
Optoacoustic spectroscopy; Photosynthesis; Pulsed-laser induced optoacoustic spectroscopy (Intact leaf) (Jabben, M. (809) 445)

Primary structure
Pancreatic spasmolytic polypeptide; Amino acid sequence (Porcine pancreas) (Thim, L. (827) 410)

Phosphoglycerate kinase; Aging (Hardt, H. (831) 13)

Alkaline phosphatase; Partial amino acid sequence; Sequence homology (Bovine intestine) (Culp, J.S. (831) 330)

Aspartate aminotransferase; Amino acid sequence; Transaminase; Isoenzyme; Mitochondrial enzyme (Human heart) (Martini, F. (832) 46)

Primase
DNA replication; Replication origin; Secondary structure; Cloning (Bacteriophage G4) (Sakai, H. (826) 30)

Primer specificity
Poly(A) polymerase (*Artemia*) (Roggen, E. (825) 21)

Probe binding
Liposome; Isolated vacuole; Membrane potential; Surface potential (Plant) (Gibrat, R. (819) 206)

Isolated vacuole; Transtonoplast potential; Microelectrode; Lipophilic cationic probe (Plant) (Barbier-Brygoo, H. (819) 215)

Probucol
Sterol synthesis; Plasma cholesterol; Cholestyramine; Cholesterolemia (Human mononuclear leukocyte) (McNamara, D.J. (833) 412)

Procalpain activation
Erythrocyte membrane; Ca^{2+}; Proteinase; Calpain (Human) (Pontremoli, S. (831) 335)

Processed gene
Protein P31; Housekeeping protein; Multigene family; Nucleotide sequence; Gene library (Theodor, L. (826) 137)

Processing inhibitor
Oligosaccharide processing; Glycan (Fuhrmann, U. (825) 95)

Processive mechanism
Exoribonuclease; Exonucleolytic cleavage; mRNA degradation; RNAase (Rat liver) (Kumagai, H. (827) 431)

Procoagulant
Amino acid composition; Proteinase; Cysteine proteinase (Human amnion-chorion membrane) (Falanga, A. (831) 161)

Procoagulant activity
Platelet activation; Cytoskeleton; Phospholipid asymmetry (Comfurius, P. (815) 143)

Procollagen
Translation; Collagen synthesis; Protein synthesis (Reticulocyte lysate) (Goldenberg, R. (826) 101)

Proenzyme kinetics
Ile-Val:trypsinogen complex; Trypsinogen activation; Substrate specificity (Bovine pancreas) (Menegatti, E. (832) 1)

Progestin receptor
Estrogen receptor; Collagenase; Molybdate; Percoll (Vagina, Mouse) (Uchima, F.-D.A. (841) 135)

Progress curve analysis
Michaelis parameter (Hasinoff, B.B. (838) 290)

Peptide uptake; ^{1}H-NMR (Human erythrocyte) (Vandenberg, J.I. (846) 127)

Prokallikrein activation
Kallikrein; Monoclonal antibody; Active-site labeling (Rat pancreas) (Woodley, C.M. (829) 408)

Prolactin receptor
Alcohol-membrane interaction; Hormone binding; Membrane fluidity; Fluorescence (Rat prostate, Rat liver) (Dave, J.R. (816) 313)

Glucocorticoid receptor; Bromocriptine; Adrenalectomy (Rat liver) (Dave, J.R. (845) 276)

Prolactin uptake
Chloroquine sensitivity; Endocytosis (Liver) (Khan, R.J. (838) 77)

Proline content
Colchicine infusion; Protein secretion (Goat mammary gland) (Groves, M.L. (844) 105)

Proline hydroxylation
Ascorbate requirement; Collagen synthesis (Chick embryo) (Roach, H.I. (842) 139)

Proline isomerization
Protein refolding; *Cis-trans* isomerase; Isomerase (Fischer, G. (828) 39)

RNAase A; Conformational energy calculation (Ihara, S. (830) 109)

Proline transport
Cyanine dye; Membrane potential; Amino acid transport; Transport inhibitor (Rabbit intestine) (Wright, E.M. (818) 271)

Proline uptake
Glucose uptake; Estradiol (Plasma membrane vesicle) (Feldman, J.M. (845) 265)

Prolyl endopeptidase
Bradykinin; Bradykinin-inactivating activity; Aminopeptidase (Guinea-pig neutrophil) (Nagaoka, I. (847) 67)

Pronuclear transcription
RNA synthesis; Cell cycle; Fertilization (Sea urchin) (Poccia, D. (824) 349)

Propionate transport
Plasma membrane (Rat liver) (Fafournoux, P. (818) 73)

Propranolol-membrane interaction
Dipalmitoylphosphatidylcholine; Conformational analysis (Brasseur, R. (815) 341)

Prostacyclin
Cell surface interaction; Vascular tissue; Prostaglandin release (Human umbilical artery) (Price, R.M. (836) 246)

Adenylate cyclase; Enzyme localization; Forskolin; Prostaglandin D_2 (Human platelet) (Cutler, L.S. (845) 403)

Thrombin; Prostaglandin synthesis (Endothelial cell) (De Groot, P.G. (846) 342)

Prostacyclin release
Aging; Plasma lipid; Platelet fatty acid (Rat) (Suzuki, H. (836) 394)

Prostaglandin
Cholesterol; Membrane lipid; Fluorescence depolarization (Rabbit erythrocyte) (Manevich, E.M. (815) 455)

Thromboxane; Glutathione; Nerve cell; Arachidonate metabolism (Rat and Frog sciatic nerve) (Goswami, S.K. (834) 263)

Dietary fat; Phospholipid fatty acid (Rat) (Croft, K.D. (834) 316)

Sterol synthesis (Human mononuclear leukocyte) (Krone, W. (835) 154)

Monoclonal antibody specificity; Immunoassay (Tanaka, T. (836) 125)

Enzyme immunoassay; Radioimmunoassay; 6-Ketoprostaglandin $F_{1\alpha}$ (Tonai, T. (836) 335)

Osteolytic factor; Growth factor; Bone resorption (Mouse mammary carcinoma) (Lau, K.-H.W. (840) 56)

Anti-inflammatory steroid; Lipocortin; Antiphospholipase A_2 protein (Fibroblast) (Errasfa, M. (847) 247)

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Ethanol; Arachidonate; Leukotriene (Polymorphonuclear leukocyte) (Westcott, J.Y. (833) 262)

Adenylate cyclase; Enzyme localization; Forskolin; Prostacyclin (Human platelet) (Cutler, L.S. (845) 403)

Prostaglandin D_2 inhibition
Lysozyme synthesis; Prostaglandin metabolite (Macrophage-like cell) (Kasukabe, T. (844) 330)

Prostaglandin dehydrogenase
Estradiol suppression; Prostaglandin excretion (Rat urine, Kidney) (Cagen, L.M. (833) 372)

Prostaglandin E_2
Indomethacin; Adenosine deaminase; Glucose metabolism; Insulin stimulation (Human adipocyte) (Richelsen, B. (844) 359)

Interleukin 1; Collagenase (Human epidermis) (Hauser, C. (846) 350)

Erythrocyte membrane; Binding site; Kinetics (Dutta-Roy, A.K. (812) 671)

Phorbol ester; Teleocidin; Aplysiatoxin; Palytoxin; Tumor promoter (Rat macrophage) (Ohuchi, K. (834) 42)

Protein turnover; Sepsis (Muscle) (Turinsky, J. (840) 137)

Prostaglandin E_2 release
Puromycin; Emetine (Skeletal muscle) (Turinsky, J. (840) 134)

Prostaglandin endoperoxide
Arachidonic acid; Platelet aggregation; Serotonin release; Thromboxane A_2 (Hashimoto, Y. (841) 283)

Prostaglandin endoperoxide synthase
Arachidonic acid; Prostaglandin synthesis stimulating factor; Amniotic fluid (Bovine seminal vesicle) (Mitchell, M.D. (833) 379)

Prostaglandin excretion
Prostaglandin dehydrogenase; Estradiol suppression (Rat urine, Kidney) (Cagen, L.M. (833) 372)

Prostaglandin metabolism
Eicosapentaenoic acid; 13-Hydroxylated prostaglandin; Hydroperoxy acid (Fetal calf aorta) (Powell, W.S. (835) 201)

Prostaglandin metabolite
GC-MS (Rat hepatocyte) (Okumura, T. (837) 197)

Prostaglandin D_2 inhibition; Lysozyme synthesis (Macrophage-like cell) (Kasukabe, T. (844) 330)

Prostaglandin release
Prostacyclin; Cell surface interaction; Vascular tissue (Human umbilical artery) (Price, R.M. (836) 246)

Prostaglandin structure
Hydroxyeicosanoid; Lipoxygenase activation (Murine PT-18 cell) (Vanderhoek, J.Y. (837) 119)

Prostaglandin synthesis
Arachidonic acid conversion; Glycerolipid; Chloramphenicol (Mouse peritoneal macrophage) (De Maroussem, D. (834) 8)

Arachidonate metabolite; Monooxygenase; Mass spectrometry; Insulin release; Eicosanoid (Rat liver and pancreas) (Turk, J. (835) 1)

Eicosaenoic acid; Fatty acid; Chemiluminescence; Phospholipid acyl composition (Rat macrophage) (Magrum, L.J. (836) 354)

Adrenic acid (Human endothelial cell) (Campbell, W.B. (837) 67)

Thrombin; Prostacyclin (Endothelial cell) (De Groot, P.G. (846) 342)

Prostaglandin synthesis stimulating factor
Prostaglandin endoperoxide synthase; Arachidonic acid; Amniotic fluid (Bovine seminal vesicle) (Mitchell, M.D. (833) 379)

Prostaglandin transport
Proximal tubule; H^+ cotransport; Transport inhibitor; Membrane vesicle (Rabbit kidney) (Boumendil-Podevin, E.F. (812) 91)

Protamine
Scylliorhinine Z2; Sperm chromatin; Amino acid sequence (Dog-fish) (Martinage, A. (831) 172)

Protein acetylation
Protein synthesis; Post-translational modification; Keratin; Protein phosphorylation (Gibbs, P.E.M. (824) 247)

Protein aggregation
Myelin proteolipid protein; Molecular weight determination; Pressure effect; Membrane protein (Gow, A. (828) 383)

Proteinase
Cytochrome c oxidase; Membrane reconstitution; Pigment orientation (Zhang, Y.-Z. (808) 209)

Chymopapain; Papain; Papaya proteinase III; Enzyme kinetics (Papaya) (Zucker, S. (828) 196)

Proteolytic enzyme specificity; Snake venom; Fibrinogenase (*C. atrox*) (Komori, Y. (829) 127)

Ca^{2+}-activated proteinase; Renal hypertension; Enzyme purification; Cardiomyopathy (Rat heart) (Spalla, M. (830) 258)

Procoagulant; Amino acid composition; Cysteine proteinase (Human amnion-chorion membrane) (Falanga, A. (831) 161)

Erythrocyte membrane; Ca^{2+}; Procalpain activation; Calpain (Human) (Pontremoli, S. (831) 335)

Ca^{2+}; Platelet cytoskeleton; Actomyosin (Human) (Yoshida, K.-i. (842) 62)

Cathepsin D (Rat gastric mucosa) (Muto, N. (843) 114)

Proteinase binding
α_2-Macroglobulin; Monospecific antibody (Borth, W. (838) 361)

Proteinase inhibitor
Cross-bridge motion; Striated muscle; Myofilament; Quasi-elastic light scattering (Fan, S.-F. (827) 101)

α_2-Macroglobulin; Exocytosis; Coagulation (*Limulus* blood cell) (Armstrong, P.B. (827) 453)

Ca^{2+}; Inhibitor purification (Porcine skeletal muscle) (Lepley, R.A. (828) 95)

α_2-β_1-Glycoprotein; Elastase inhibitor (Horse plasma) (Pellegrini, A. (830) 20)

Proteinase kinetics
Snake venom; pH effect; Synthetic substrate (*A. rhodostoma*) (Ascenzi, P. (829) 415)

Plasmin; Substrate specificity; pH effect (Human plasma) (Ascenzi, P. (832) 215)

Proteinase-proteinase inhibitor interaction
FITC-labelled chymotrypsin; Immunoblotting analysis (Silkworm antichymotrypsin) (Sasaki, T. (831) 151)

Proteinase purification
Ca^{2+} dependence; Calpain; Immunological characterization (Rabbit skeletal muscle) (Penny, I.F. (829) 244)

Proteinase treatment
Alloantigen domain; Glycoprotein IIIa (Human platelet) (Kornecki, E. (818) 285)

Protein association
Microtubule assembly (Brain) (Díez, J.C. (838) 32)

Protein-carbohydrate interaction
Proteoglycan; Matrix protein (Cartilage) (Aletras, A.J. (840) 170)

Protein-cell interaction
Factor X_a; Prothrombin activation; Endothelial cell (Bovine aorta) (Rodgers, G.M. (844) 320)

Protein C inhibitor
Inhibitor synthesis (Human hepatoma Hep G2) (Morito, F. (844) 209)

Protein composition
Secretin stimulation; 92 kDa glycoprotein; Pancreatic secretion; Caerulein (Porcine pancreas) (LeBel, D. (847) 132)

Protein concentration
Mitochondrial membrane; Integral protein; Lateral diffusion (Sowers, A.E. (821) 85)

Protein conformation
Plastocyanin; Chemical modification; Electron transport; Redox potential (Anderson, G.P. (810) 123)

Heme disorder; Myoglobin; NMR; Nuclear Overhauser effect (Sperm whale) (Lecomte, J.T.J. (829) 268)

Ultrasonic absorption; Myoglobin; pH dependence (Cho, K.C. (830) 36)

Crystallin; Circular dichroism; Fluorescence (Human lens) (Liang, J.N. (832) 197)

Protein cross-linking
Membrane protein; Transglutaminase catalysis; Erythrocyte membrane; Sickle cell (Ballas, S.K. (812) 234)

Adrenodoxin reductase; Adrenodoxin; Electron tansfer; Chemical modification; Cytochrome *P*-450 (Bovine adrenal cortex) (Usanov, S.A. (832) 288)

Protein degradation
ATP activation; Lysosomal extract (Pillai, S. (843) 92)

α_2-Macroglobulin · trypsin; Insulin; Protein uptake (Gliemann, J. (845) 124)

Protein denaturation
Apolipoprotein A-I; Hydrostatic pressure; Guanidinium chloride; Lecithin:cholesterol acyltransferase (Human HDL) (Mantulin, W.W. (836) 215)

Protein density
Membrane fusion; Mitochondrial inner membrane; Fluorescence; Freeze-fracture; Electron microscopy (Rat liver) (Chazotte, B. (818) 87)

Protein-detergent interaction
Succinate-ubiquinone reductase; Succinate dehydrogenase; Respiratory chain (Bovine heart mitochondria) (Tushurashvili, P.R. (809) 145)

Protein distribution
22 kDa protein (Rat testis, Spermatozoa) (Brooks, D.E. (841) 59)

Protein-disulfide reductase (glutathione)
Glutathione-insulin transhydrogenase activity; Metal ion; Histidine; Chelating agent (Bovine pancreas) (Varandani, P.T. (832) 7)

Protein export deficiency
Cell mutant; Glycoprotein (CHO cell) (Nakano, A. (845) 324)

Protein glycosylation
Hormonal control; Transferrin synthesis; Protein secretion (Rabbit mammary gland) (Bradshaw, J.P. (847) 344)

Protein helical structure
Cholesterol; Hydroxycholesterol; Acyl chain; Oxysterol-cholesterol synergism (Human erythrocyte membrane) (Rooney, M.W. (820) 33)

Protein inhibitor
(Ca^{2+} + Mg^{2+})-ATPase (Synaptic plasma membrane) (Au, K.S. (821) 348)

Amylase inhibitor; Wheat albumin (*T. aestivum*) (Buonocore, V. (831) 40)

Protein kinase
Chlorophyll *b*; Thylakoid membrane (Sweet clover, Barley, Wheat) (Markwell, J.P. (808) 156)

Chlorophyll fluorescence; Light-harvesting complex; Photosystem II; Protein phosphorylation (Spinach chloroplast) (Farchaus, J. (809) 17)

Ribosome; Initiation factor eIF2; Protein synthesis (Thoen, C. (825) 268)

Initiation factor eIF2; Self-phosphorylation (Jackson, R.J. (826) 224)

Gossypol inhibition; Phospholipid sensitivity; Ca^{2+} dependence (Pig testis) (Kimura, K. (839) 276)

Polyamine; Cyclic nucleotide (Mouse mammary) (Leiderman, L.J. (844) 95)

Calmodulin dependence (Rat liver) (Sorge, L.K. (844) 174)

Ca^{2+} transport; cyclic AMP; Phospholamban; Calmodulin; Sarcoplasmic reticulum (Dog heart) (Kranias, E.G. (844) 193)

Differentiation; cyclic AMP dependence (Murine cell) (Sato, M. (844) 296)

Lens membrane; Membrane phosphorylation; cyclic AMP (Johnson, K.R. (844) 367)

Tyrosine specificity; Phosphorylation (Human lymphocyte) (Trevillyan, J.M. (845) 1)

cyclic AMP; Platelet-activating factor; Acetyl-CoA transferase (Rat spleen microsome) (Gómez-Cambronero, J. (845) 516)

Atriopeptin II; cyclic GMP; Vascular relaxation; Atrial natriuretic factor (Rat aorta) (Fiscus, R.R. (846) 179)

Casein kinase; Phosphoprotein (Rat liver cytosol) (Meggio, F. (846) 248)

Protein kinase C
Respiration; Phospholipase C; Ca^{2+}; Secretion; Diacylglycerol (Neutrophil) (Grzeskowiak, M. (844) 81)

Verapamil inhibition; fMet-Leu-Phe; Phorbol ester; Ca^{2+} change; cyclic AMP (Neutrophil) (Della Bianca, V. (845) 223)

Protein-lipid complex
Mitochondrial membrane; ATPase; Cytochrome *c* oxidase; Succinic dehydrogenase; Liposome (Ayala, G. (810) 115)

Protein-lipid interaction
Ubiquinone-cytochrome *c* reductase; Differential scanning calorimetry; Enzyme inactivation (Gwak, S.-H. (809) 187)

Fluorescence microscopy; Reaction center; Light-harvesting complex; Phospholipid monolayer (*Rps. sphaeroides*) (Heckl, W.M. (810) 73)

Hexane phosphonic acid diethyl ester; Cytochrome *P*-450; Quasi-elastic light scattering; Freeze-fracture; ^{31}P-NMR (Bayerl, T. (812) 437)

Cytochrome *c* oxidase; Thermal denaturation; Differential scanning calorimetry (Yu, C.A. (812) 656)

α-Lactalbumin; Lipid solubilization; Dimyristoylphosphatidylcholine; Circular dichroism; Fluorescence polarization (Hanssens, I. (817) 154)

Liposome; L-Glycerol-3-phosphate dehydrogenase; Membrane structure; ESR; Fluorescence (Jancsik, V. (820) 283)

Protein-lipoprotein interaction
Elastin; Lipoprotein (Winlove, C.P. (838) 374)

Protein mixed-disulfide
S-Thiolation; Diamide (Grimm, L.M. (844) 50)

Protein modification
Fast skeletal muscle; Actin; Myosin; LC2 light chain phosphorylation (Rabbit skeletal muscle) (Cardinaud, R. (832) 80)

Carboxyl methylation; Chemotaxis (*Dictyostelium*) (Van Waarde, A. (840) 344)

Protein oligomer
Cytoskeleton; Spectrin; Actin-binding protein; Antibody reactivity (Human erythrocyte, Brain) (Harris, A.S. (830) 147)

Protein orientation
Cytochrome oxidase; Membrane reconstitution; Affinity chromatography; Cytochrome *c* (Madden, T.D. (808) 219)

Glycophorin; Band 3; Membrane reconstitution; Affinity chromatography; Immunofluorescence quenching; Fluorescence quenching (Erythrocyte membrane) (Darmon, A. (817) 238)

Protein oxidation
Membrane oxidation; *α*-Tocopherol; Vitamin E; Lipid oxidation; Free radical (Erythrocyte membrane) (Yamamoto, Y. (819) 29)

Protein PA
Nitrate reductase; Enzyme activation (*E. coli*) (Giordano, G. (839) 181)

Protein phosphatase
Enzyme inhibitor; Polybrene (Rabbit skeletal muscle) (Erdödi, F. (827) 23)

Development (*Dictyostelium*) (Van Driel, R. (847) 122)

Protein phosphorylation
Chlorophyll fluorescence; Light-harvesting complex; Photosystem II; Protein kinase (Spinach chloroplast) (Farchaus, J. (809) 17)

Light-harvesting complex; Thylakoid protein; Photosystem I; Fluorescence (*C. reinhardtii*) (Delèpelaire, P. (809) 277)

Light-harvesting complex; Membrane lateral heterogeneity; Photosystem II; Thylakoid membrane (Spinach chloroplast) (Larsson, U.K. (809) 396)

Fluorescence quenching; Mg^{2+} effect; Light-harvesting chlorophyll *a*/*b* protein; Photosystem II (Spinach chloroplast) (Islam, K. (810) 158)

$(Na^+ + K^+)$-ATPase; Imidazole (Rabbit kidney) (Schuurmans Stekhoven, F.M.A.H. (815) 16)

$(Ca^{2+} + Mg^{2+})$-ATPase; Sarcoplasmic reticulum (Rabbit muscle) (Domonkos, J. (817) 1)

Protein synthesis; Post-translational modification; Keratin; Protein acetylation (Gibbs, P.E.M. (824) 247)

Ribonucleoprotein; hnRNA; Ultraviolet crosslinking; *α*-Amanitin (Rat lymphocyte) (Schweiger, A. (826) 87)

AMP deaminase; Troponin T; Enzyme regulation (Rabbit skeletal muscle) (Ranieri-Raggi, M. (827) 93)

Synthetic peptide; Histone kinase (Romhányi, T. (827) 144)

Ionic strength; Tyrosine protein kinase; Lymphocyte (Calf thymus) (Mason, D.L. (829) 221)

Myosin; Actin; Troponin; ATP hydrolysis (Stępkowski, D. (831) 321)

Phosphoamino acid (Crown gall tumor) (Elliott, D.C. (845) 317)

Ribosomal protein S6; Tumor promoter (Rance, A.J. (847) 128)

Inhibitor-2; Molecular mass (Rabbit liver) (Chisholm, A.A. (847) 155)

Interleukin-2; Growth factor; Lymphocyte (Mire, A.R. (847) 159)

Nuclear kinase; GTP (HeLa cell) (Friedman, D.L. (847) 165)

S-Adenosylmethionine; *S*-Adenosylhomocysteine; 50 kDa protein; Phospholipid methyltransferase (Rat liver) (Villalba, M. (847) 273)

Aminobenzamide resistance; NAD^+ labeling (Surowy, C.S. (847) 309)

Protein-protein complex
Monoclonal antibody (Yaneva, M. (841) 22)

α_2-Macroglobulin; Trypsin; Protein uptake (Rat hepatocyte) (Davidsen, O. (846) 85)

Protein-protein interaction
Plastocyanin; Cytochrome *c*; Electron transfer; NMR (King, G.C. (806) 262)

Sarcoplasmic reticulum; Ca^{2+}-ATPase; Analytical ultracentrifugation; Detergent (Lüdi, H. (821) 137)

Lipoprotein lipase activation; Apolipoprotein C-II (Clarke, A.R. (827) 358)

Spectrin analysis; Membrane protein (Neonatal red blood cell) (Hajjar, K.A. (827) 460)

Calmodulin; Microtubule-associated protein; Actin filament; Flip-flop; Ca^{2+} (Sobue, K. (845) 366)

α_2-Macroglobulin; Thrombin; Plasmin (Hepatocyte) (Spolarics, Z. (845) 389)

Protein P31
Housekeeping protein; Multigene family; Nucleotide sequence; Gene library; Processed gene (Theodor, L. (826) 137)

Protein refolding
Proline isomerization; *Cis-trans* isomerase; Isomerase (Fischer, G. (828) 39)

Protein release
S-100 protein; Insulin inhibition (Rat adipose tissue) (Suzuki, F. (845) 311)

Protein secretion
Xylanase; Gene expression; Immunoprecipitation; mRNA translation; Tunicamycin (*C. albidus*) (Morosoli, R. (826) 202)

Colchicine infusion; Proline content (Goat mammary gland) (Groves, M.L. (844) 105)

Cytochalasin D; Actin; Adrenergic agonist; Carbachol (Rat lacrimal gland) (Muller, P. (844) 158)

Von Willebrand factor; Thrombospondin; Fibronectin (Human vascular endothelial cell) (Reinders, J.H. (844) 306)

Hormonal control; Protein glycosylation; Transferrin synthesis (Rabbit mammary gland) (Bradshaw, J.P. (847) 344)

Protein secretion kinetics
Intracellular transport (Human hepatoma cell) (Parent, J.B. (846) 44)

Protein separation
κ-Casein; Casein micelle; Glycosylation (Bovine milk) (Dalgleish, D.G. (830) 213)

Protein structure
Lactate dehydrogenase; Cryokinetics; Time-resolved conformational change; Chemical modification (Clarke, A.R. (829) 397)

Membrane protein; Photoreceptor; Vision; Image reconstruction; Fourier filtering (Dratz, E.A. (832) 337)

Protein structure determination
Bond angle; Heme model compound; Synchrotron radiation; XANES (Bianconi, A. (831) 114)

Protein structure prediction
Membrane protein; Membrane-spanning segment; Discriminant analysis (Klein, P. (815) 468)

Exon; Intron; Splice junction; Membrane-bound protein (Argos, P. (827) 283)

Membrane protein; Amino acid sequence; Membrane-binding domain (Kuhn, L.A. (828) 351)

Protein structure state
Bound water; Proton relaxation; Cross relaxation; β-Lactoglobulin; NMR (Pessen, H. (828) 1)

Protein synthesis
Chlorophyll synthesis; CO_2 fixation; Chloroplast development (*Euglena* chloroplast) (Gómez-Silva, B. (808) 448)

Membrane protein; Membrane biogenesis (Rat liver mitochondria) (Noël, C. (814) 35)

Serum deprivation; Initiation factor; Cell culture (Mouse neuroblastoma) (Salimans, M.M.M. (824) 16)

Albumin; Glucocorticoid; RNA (Rat hepatocyte) (Moshage, H.J. (824) 27)

ADPribosylation; Elongation factor 2; Ribosome reconstitution (Rabbit reticulocyte) (Nygård, O. (824) 152)

Post-translational modification; Keratin; Protein phosphorylation; Protein acetylation (Gibbs, P.E.M. (824) 247)

Carbon tetrachloride toxicity (Rat liver mitochondria) (De Wit, R.H. (824) 256)

Var1 protein; Ribosome assembly; Mitochondrial biogenesis; Erythromycin (*S. cerevisiae*) (Maheshwari, K.K. (824) 273)

Ribosome; tRNA isoacceptor; glutamyl-tRNA (Rat skeletal muscle) (Jones, G.H. (824) 324)

Lymphocyte blastogenesis; Phytohemagglutinin (Human) (Lester, E.P. (824) 365)

Cell-free system (Mouse liver) (Morley, S.J. (825) 45)

Initiation; Heat shock (Mouse liver) (Morley, S.J. (825) 57)

tRNA modification; tRNA-rRNA cross-linking; Ribosome; Photoaffinity label (*E. coli*) (Chen, J.-K. (825) 161)

Initiation factor; Polyclonal antibody; Monoclonal antibody; Radioimmunoassay (Mengod, G. (825) 169)

Heat shock; Poly(A)-binding protein (Friend erythroleukemia cell) (Sunitha, I. (825) 214)

Protein kinase; Ribosome; Initiation factor eIF2 (Thoen, C. (825) 268)

Translational fidelity (HeLa cell) (Luce, M.C. (825) 280)

Ribonuclease; Signal peptide (Pig pancreas) (Carsana, A. (825) 299)

Differentiation; mRNA degradation; Globin synthesis; Lysosome; Erythropoiesis (Langstaff, J.M. (825) 316)

Catabolite repression; RNA synthesis (Yeast) (Boucherie, H. (825) 360)

Initiation factor; Recycling factor; Translation; Cell-free system (Mouse neuroblastoma) (Salimans, M. (825) 384)

Hormone action; Glucocorticoid domain; Gel electrophoresis (Rat hepatocyte) (Colbert, R.A. (826) 49)

Procollagen; Translation; Collagen synthesis (Reticulocyte lysate) (Goldenberg, R. (826) 101)

Aging; Ribosome (Nematode) (Egilmez, N.K. (840) 355)

Protein synthesis defect
Temperature-sensitive mutant; MS2 RNA; Translation (*E. coli*) (Armstrong-Major, J. (824) 140)

Protein synthesis inhibitor
Dihydroxyvitamin D-3; Ca^{2+} transport; Phospholipid (Muscle) (De Boland, A.R. (845) 237)

Protein translocation
Nucleolus; Ribosome synthesis; Phosphoprotein B23 (HeLa cell) (Yung, B.Y.-M. (826) 167)

Protein turnover
Nitrate; Photosynthesis; Nitrate reductase (*Chlamydomonas*) (Hipkin, C.R. (838) 191)

Prostaglandin E_2; Sepsis (Muscle) (Turinsky, J. (840) 137)

Muscular dystrophy; Methylamino acid (Mouse skeletal muscle) (Mizobuchi, M. (843) 78)

Glutamine synthetase; Aspartokinase (*K. aerogenes*) (Fulks, R.M. (843) 214)

Glycogen phosphorylase; Pyridoxal phosphate (Mouse skeletal muscle) (Butler, P.E. (847) 316)

Protein unfolding
Circular dichroism; Lysozyme; Tertiary structure (Hen egg white) (Gałat, A. (827) 221)

Protein uptake
α_2-Macroglobulin · trypsin; Insulin; Protein degradation (Gliemann, J. (845) 124)

α_2-Macroglobulin; Trypsin; Protein-protein complex (Rat hepatocyte) (Davidsen, O. (846) 85)

Protein 2 (Lc)
Porin; Outer membrane; Membrane reconstitution; Planar bilayer; Pore selectivity (*E. coli*) (Lakey, J.H. (817) 208)

Protein 4.1
Sialoglycoprotein β; Elliptocytosis; Erythrocyte membrane; Membrane skeleton (Alloisio, N. (816) 57)

Proteoglycan
Chondroitin sulfate; Keratan sulfate (Intervertebral disc) (Cole, T.-C. (839) 127)

Matrix protein; Protein-carbohydrate interaction (Cartilage) (Aletras, A.J. (840) 170)

Collagen; Low-angle X-ray diffraction (Articular cartilage) (Ronzière, M.-C. (842) 170)

Link protein (Canine synovial cell) (Fife, R.S. (843) 238)

Monensin (Chondrocyte) (Burditt, L.J. (844) 247)

Proteoglycan aggregate
Link protein (Bovine aorta) (Vijayagopal, P. (839) 110)

Proteoglycan size
Parathyroid hormone; Somatomedin-like factor (Rabbit chondrocyte) (Hiraki, Y. (845) 445)

Proteoglycan structure
Chondroitin sulfate; Osteoarthritis (Articular cartilage) (Cox, M.J. (840) 228)

Proteoglycan synthesis
Hydrogen peroxide (Bovine articular cartilage) (Bates, E.J. (838) 221)

Chondroitin sulfate; Sulfation (Rat glomerulus) (Kobayashi, S. (841) 71)

Proteoliposome
Protonmotive force; Bacteriorhodopsin; Membrane fusion; Ca^{2+} transport (*S. cremoris*) (Driessen, A.J.M. (808) 1)

Cytochrome *P*-450; ^{13}C-NMR; Enzyme-substrate interaction (Rabbit liver) (Petzold, D.R. (829) 253)

Proteolysis
ESR; Maleimide spin label; Erythrocyte membrane (Bartosz, G. (821) 175)

Histone H1 (*P. polycephalum*) (Côté, S. (828) 22)

methionyl-tRNA synthetase; aminoacyl-tRNA synthetase; Molecular weight; Multienzyme complex; Multiple forms (Rat liver) (Siddiqui, F.A. (828) 177)

Galactosyltransferase; Thermolysin; Phase separation (Mammary carcinoma cell) (Gmeiner, B.M. (829) 76)

Poly(ADPribose) polymerase; Nucleotide stimulation (Human lymphocyte) (Surowy, C.S. (832) 33)

Proteolytic degradation
Zn^{2+}; Interferon β; Gene expression (*E. coli*) (Gross, G. (825) 207)

Proteolytic enzyme specificity
Snake venom; Fibrinogenase; Proteinase (*C. atrox*) (Komori, Y. (829) 127)

Proteolytic form
Neutral α-D-glucosidase; Amphipathic form; Brush-border enzyme (Horse kidney) (Giudicelli, J. (831) 59)

Prothrombin activation
Factor X_a; Endothelial cell; Protein-cell interaction (Bovine aorta) (Rodgers, G.M. (844) 320)

Protocollagen
Lysine; Peptide substrate; Lysyl hydroxylase (Human) (Glass, D.B. (840) 143)

Protoheme
ESR; Heme protein; Nitric oxide derivative; Heme iron coordination (Ascenzi, P. (829) 299)

Proton channel
Hydrogen bond; Proton transfer; Polaron; ATPase (Tomchuk, P.M. (807) 272)

Proton flux
ATP synthesis; ATP synthase (Pea chloroplast) (Lemaire, C. (807) 285)

Photosystem I; Neutral red; Cresol red; Surface charge (Spinach subchloroplast vesicle) (De Wolf, F.A. (809) 204)

Proton gradient
ATP synthesis; Membrane potential; Respiration; Oxidative phosphorylation (Potato mitochondria) (Diolez, P. (806) 56)

ATP synthesis; Coupling factor; Membrane reconstitution (Chloroplast) (Schmidt, G. (808) 46)

Respiration; Oxidative phosphorylation; Ethanol; Phosphate potential (Rat liver mitochondria) (Rottenberg, H. (809) 1)

Photophosphorylation; Photosystem I; Photosystem II (Lettuce chloroplast) (Sigalat, C. (809) 403)

Membrane vesicle; Liposome; Volume measurement; ESR (Plant) (Lomax, T.L. (821) 106)

Protonmotive force
Motility; Flagella; Uncoupler (*Rps. sphaeroides*) (Armitage, J.P. (806) 42)

Proteoliposome; Bacteriorhodopsin; Membrane fusion; Ca^{2+} transport (*S. cremoris*) (Driessen, A.J.M. (808) 1)

Oxidative phosphorylation; ATP synthesis; Respiratory chain; Adenine nucleotide translocator (Rat liver mitochondria) (Holzhütter, H.-G. (810) 252)

Proton pump
8-azido-ATP; Oxidative phosphorylation; ATP synthase inhibitor (Bovine heart mitochondria) (Herweijer, M.A. (809) 81)

Proton relaxation
Bound water; Cross relaxation; β-Lactoglobulin; Protein structure state; NMR (Pessen, H. (828) 1)

Proton transfer
Hydrogen bond; Proton channel; Polaron; ATPase (Tomchuk, P.M. (807) 272)

Cholesterol esterase; Acylenzyme mechanism; Solvent isotope effect; Transition state (Stout, J.S. (837) 6)

Proton translocation
Venturicidin; Oligomycin; Ossamycin; H^+-ATPase (*E. coli*) (Perlin, D.S. (807) 238)

pH indicator; Photosynthetic bacterium; Chemiosmotic hypothesis (*Rps. capsulata*) (Taylor, M.A. (810) 209)

Cross-over point; Secretion inhibitor; Acid secretion (Frog gastric mucosa) (Ekblad, E.B.M. (817) 147)

Proton transport
Photosystem II; Water splitting; Uncoupler; Plastoquinone (Spinach chloroplast) (Arnon, D.I. (809) 167)

pH effect; Bacteriorhodopsin (Ormos, P. (809) 181)

Pruple membrane; Bacteriorhodopsin; pH effect (*Halobacterium*) (Renard, M. (809) 331)

Clathrin; ATP dependence; Acidification (Brain vesicle) (Van Dyke, R.W. (812) 423)

Water transport; Membrane permeability (Erythrocyte ghost) (Pitterich, H. (821) 233)

Proto-oncogene
Oncogene; Gene structure; Restriction analysis (Abelson virus, Cat) (Schalken, J.A. (824) 104)

Restriction enzyme analysis (Feline, Human) (Van den Ouweland, A.M.W. (825) 140)

Protoplast
Rb^+ uptake; Surface potential; Ca^{2+} (*S. cerevisiae*) (Gage, R.A. (812) 1)

Protoplast vacuole
Malate uptake; Energy dependence (Barley) (Martinoia, E. (806) 311)

Proximal tubule
H^+ cotransport; Transport inhibitor; Prostaglandin transport; Membrane vesicle (Rabbit kidney) (Boumendil-Podevin, E.F. (812) 91)

Pruple membrane
Bacteriorhodopsin; pH effect; Proton transport (*Halobacterium*) (Renard, M. (809) 331)

Psoralen
Nucleosome movement; DNA repair; Chromatin dynamics (Human fibroblast) (Cleaver, J.E. (824) 163)

Psychrophilic bacterium
Differential scanning calorimetry; Fluorescence polarization; Membrane fluidity; Phospholipid (*M. cryophilus*) (McGibbon, L. (820) 115)

Pteridine
Liposome; Endocytosis; Drug delivery; Methotrexate (Heath, T.D. (820) 74)

Pterin metabolism
Dyspropterin; Tetrahydrobiopterin (Masada, M. (840) 235)

Pulmonary surfactant
Apolipoprotein A; Quaternary structure (Rat lung) (Weaver, T.E. (827) 260)

Surfactant-associated glycoprotein; Type II cell; Immunoprecipitation; Glycosylation (Rat lung) (Whitsett, J.A. (828) 162)

Monoclonal antibody; Apoprotein (Human) (Kuroki, Y. (836) 201)

Pulsed-laser induced optoacoustic spectroscopy
Optoacoustic spectroscopy; Photosynthesis; Primary process (Intact leaf) (Jabben, M. (809) 445)

Pulse fluorimetry
Fluorescence energy transfer; Actin nucleotide-binding site; Metal-binding site (Rabbit skeletal muscle) (Miki, M. (828) 188)

Pulse radiolysis
Melanin; Cysteinyldopa; 3,4-Dihydroxyphenylalanine oxidation (Thompson, A. (843) 49)

Pump-leak hypothesis
Anesthetic-membrane interaction; Liposome; Ion permeability (Barchfeld, G.L. (819) 161)

Pump stoichiometry
$(Na^+ + K^+)$-ATPase; Membrane reconstitution; Na^+-Na^+ exchange; ADP; Oligomycin (*S. acanthias* rectal gland) (Cornelius, F. (818) 211)

Purification
Choline kinase; Ethanolamine kinase; Phospholipid biosynthesis (Rat) (Ishidate, K. (836) 119)

Purine-pyrimidine sequence
DNA structure; Cesium fluoride; Dipyrandium; Ethidium; Chiroptical property (Kypr, J. (838) 244)

Purine salvage pathway
Adenine nucleotide synthesis (*B. cereus*) (Ipata, P.L. (842) 84)

Puromycin
Emetine; Prostaglandin E_2 release (Skeletal muscle) (Turinsky, J. (840) 134)

Puromycin inhibition
Sugar transport; Methylglucose transport; Insulin (Rat adipocyte) (Kubo, K. (817) 187)

Purple membrane
Bacteriorhodopsin; Charge separation; Photovoltage (Trissl, H.-W. (806) 124)

Bacteriorhodopsin; Mitochondrial membrane; Membrane fusion; Photophosphorylation (Bovine heart, Submitochondrial particle) (Seren, S. (810) 370)

Bacteriorhodopsin; Anesthetic-membrane interaction; Retinal isomer; Circular dichroism (*H. halobium*) (Nishimura, S. (818) 421)

Putrescine transport
Transport protein (Human platelet) (Nadler, S.G. (812) 345)

Putrescylthymine
Circular dichroism; DNA structure (Phage ΦW-14) (Spetter, S. (838) 312)

Pyrene
Tb^{3+} fluorescence; Membrane fluidity; Brush-border membrane (Porcine intestine) (Ohyashiki, T. (817) 181)

Phospholipid transfer protein; Fluorescence (Massey, J.B. (835) 124)

Pyrene excimer
Membrane fluidity; Glucose-6-phosphatase; Desaturase; Fatty acid desaturase; Cholesterol; Fluorescence anisotropy (Rat liver microsome) (Garda, H.A. (819) 45)

Pyrethroid
Phosphatidylcholine; Liposome; Lipid bilayer (Stelzer, K.J. (812) 361)

Pyridine nucleotide level
Ca^{2+}; Calmodulin; Cell activation (Neutrophil) (Sparkman, T.B. (846) 8)

Pyridinoline
Ozone; Collagen crosslink; Ultraviolet radiation (Fujimori, E. (828) 104)

Pyridoxal phosphate
4-Aminobutyrate aminotransferase; Conformational change (Choi, S.-Y. (830) 120)

Glycogen phosphorylase; Protein turnover (Mouse skeletal muscle) (Butler, P.E. (847) 316)

Pyrithiamin
$(Na^+ + K^+)$-ATPase; Sulfhydryl group; Glutathione (Matsuda, T. (817) 17)

Pyrophosphate
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Quinine
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Regulatory light chain phosphorylation
Regulatory light chain dephosphorylation; Decorated actin filament (Rabbit skeletal muscle) (Stępkowski, D. (830) 337)

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Sialosylfucosylneolactoetetraosylceramide
Monoclonal antibody; Sialosylfucosyllactotetraosylceramide; Ganglioside (Human pancreatic adenocarcinoma) (Månsson, J.-E. (834) 110)

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Singlet excited carotenoid
Carotenoid triplet formation; Singlet excited bacteriochlorophyll; Singlet-singlet annihilation (*R. rubrum*) (Nuijs, A.M. (810) 94)

Singlet fission
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Singlet-singlet annihilation
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Sitosterol
Phytosterolemia; Sitostanol; 7α-Hydroxysitosterol; 7α-Hydroxycholesterol; Bile acid intermediate; Sterol metabolism (Rat) (Skrede, B. (836) 368)

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Structural change
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Subcellular fractionation
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Succinate-ubiquinone reductase
Succinate dehydrogenase; Protein-detergent interaction; Respiratory chain (Bovine heart mitochondria) (Tushurashvili, P.R. (809) 145)

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Sulfite oxidation
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Sulfite radical
Spin trapping; Superoxide radical; Sulfite oxidation; Free radical (Covello, P.S. (843) 150)

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Sulfur dioxide
Sulfite oxidase; ATP content; Oxygen consumption; Tissue distribution (Mammalian tissue) (Beck-Speier, I. (841) 81)

Superoxide
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Taurocholic acid
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Thermoacidophilic archaebacterium
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Desaturation; Membrane fluidity; Cryoadaptation (*Tetrahymena*) (Kasai, R. (836) 397)

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Thermodynamic reversibility
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Thermodynamics
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Photosystem II; Oxygen evolution; Manganese (Pea chloroplast) (Klimov, V.V. (809) 414)

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Thioesterase
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2-Thioflavin
Oxynitrilase; Active site probe; Solvent accessibility (Jorns, M.S. (830) 30)

Thioguanine inhibition
Xanthine-guanine phosphoribosyltransferase; Substrate specificity (Plasmid pSV2gpt) (Deo, S.S. (839) 233)

Thioguanosine incorporation
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Thiol content
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Thiol group
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Thiol reagent
Hemoglobin; Anti-sickling activity (Domenget, C. (830) 71)

Thiophene
Photosensitizer; Polyacetylene; Liposome; Lipid peroxidation; Membrane permeability (McRae, D.G. (821) 488)

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Thiosulfate oxidation
Thiosulfate-binding enzyme; Multienzyme system mechanism (*T. versutus*) (Lu, W.-P. (828) 116)

Thiyl radical
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Threonine phosphorylation
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Phosphatidylinositol; Phosphatidylcholine; Plasma membrane; Arachidonic acid (Human platelets) (Skeaff, C.M. (834) 164)

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α_2-Macroglobulin; Plasmin; Protein-protein interaction (Hepatocyte) (Spolarics, Z. (845) 389)

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Thrombin digestion
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Thrombospondin
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Thylakoid
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Thylakoid membrane
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Thylakoid structure
Thylakoid stacking; Small-angle X-ray scattering; Electron density profile; Surface charge (Spinach chloroplast) (Diederichs, K. (809) 107)

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Transmembrane movement
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Transmethylation
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Transport
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Phosphate transport; Na^+ cotransport; Membrane reconstitution; Brush-border membrane (Rabbit kidney) (Schäli, C. (819) 66)

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Transport system L
Transport regulation; Amino acid transport; Leucine starvation (CHO-K1 cell) (Moreno, A. (819) 271)

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Triacylglycerol exchange
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Triacylglycerol lipase
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Triacylglycerol synthesis
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Urea synthesis; Fatty acid oxidation; Fatty acid esterification; Energy utilization (Rat hepatocyte) (Zaleski, J. (836) 134)

Triacylglycerol transfer
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Triamcinolone acetonide
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Triazine
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Calcium activation; K^+ channel; Membrane potential; Glycine uptake (SP 2/0 mouse myeloma cell) (Pershadsingh, H.A. (821) 445)

Cytochalasin B; Colchicine; Monensin; Liposome uptake (Kupffer cell) (Dijkstra, J. (845) 34)

Trihydroxyoctadecenoate
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α-Phenylcinnamic acid; Leukotriene; Lipoxygenase; Thromboxane B_2 (Rat leukocyte) (Kimura, Y. (837) 209)

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Stilbene derivative; 5-HETE; HHT; Thromboxane B_2 (Rat leukocyte) (Kimura, Y. (834) 275)

Triiodothyronine
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Triiodothyronine binding
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Trimethoprim resistance
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Trimethylamine *N*-oxide reductase
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Trimethylammoniumdiphenylhexatriene
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Triphenylmethyl chloride
Intercellular communication; Triphenylmethane; Tetraphenylboron (Human fibroblast) (Davidson, J.S. (847) 1)

Triphosphoinositide
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ENDOR; ESR; Spin trapping; Linoleic acid (Evans, J.C. (835) 421)

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Photosystem I; Reaction center; ESR; Iron-sulfur center (*Mastigocladus* sp.) (Nechushtai, R. (807) 35)

Magnetophotoselection; Reaction center; ESR; Pigment orientation (*Rps. sphaeroides*) (McGann, W.J. (807) 101)

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Reaction center; Antenna magnetic-field effect; Carotenoid; Bacterial photosynthesis (*R. rubrum, Rps. sphaeroides*) (Van Grondelle, R. (808) 383)

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Phosphate translocator; Hydrodynamic property; Detergent solubilization (Spinach chloroplast) (Flügge, U.I. (815) 299)

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Glucose-6-phosphatase; Enzyme isolation; Latency; Detergent-membrane interaction; Membrane modification (Rat liver microsome) (Schulze, H.-U. (814) 85)

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Tropomyosin
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Troponin
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Troponin-binding
Tropomyosin; Carboxypeptidase A; ATPase; Actomyosin ATPase; F-Actin (Chicken gizzard) (Nowak, E. (829) 335)

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Trypsin
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Thermoluminescence; Photosystem II; Oxygen evolution; Electron transport (Spinach chloroplast) (Demeter, S. (809) 369)

α_2-Macroglobulin; Protein-protein complex; Protein uptake (Rat hepatocyte) (Davidsen, O. (846) 85)

Collagenase; Membrane lipid; Mechanical harvesting (Kirkpatrick, C.J. (846) 120)

Trypsin digestion
Clara cell; Secretory protein; Immunoblotting (Rat lung) (Singh, G. (829) 156)

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Trypsinogen activation
Ile-Val:trypsinogen complex; Substrate specificity; Proenzyme kinetics (Bovine pancreas) (Menegatti, E. (832) 1)

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Calmodulin; Peptide map; Amino acid composition (*Drosophila*) (Görlach, M. (832) 228)

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Lipid bilayer; Phase transition; Partition coefficient; Fluorescence (Jain, M.K. (816) 153)

Gramicidin; Chemical modification; Dioleoylphosphatidylcholine; Lipid polymorphism (Killian, J.A. (820) 154)

Gastric acid secretion; Phenylalanine; Amino acid derivative (Magous, R. (845) 158)

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Glucocorticoid receptor; Development; Enzyme induction; Dexamethasone (Suckling rat) (Hirota, T. (842) 195)

Tryptophan fluorescence
Fluorescence energy transfer; Ionophore A23187; Membrane protein (*Ps. halosaccharolytica*) (Hyono, A. (813) 111)

Sarcoplasmic reticulum; Ca^{2+}-ATPase; Fluorescence quenching (Lüdi, H. (814) 120)

Phospholipase A_2; Lipid bilayer; Fluorescence quenching; Brominated phospholipid (Jain, M.K. (814) 135)

Apocytochrome *c*; Lipid protein interaction; Fluorescence; Differential scanning calorimetry; Circular dichroism; ESR (Rietveld, A. (818) 398)

Melittin conformation; Fluorescence quenching (Quay, S.C. (831) 22)

Tryptophan residue
Lectin binding; Galactose; Chemical modification (Winged bean) (Higuchi, M. (829) 51)

Creatine kinase; Chemical modification (Rabbit muscle) (Zhou, H.-M. (830) 59)

Tryptophan synthase
Tritium exchange; Indole-serine condensation (Turner, P.D. (832) 280)

Tryptophan transport
Transport system T; Amino acid transport (Erythrocyte membrane) (López-Burillo, S. (820) 85)

Tubulin
Detergent-membrane interaction; Triton X-114; Integral protein (Molluscan cilia) (Stephens, R.E. (821) 413)

Microtubule; Adenylate cyclase; Forskolin; Calmodulin; F^- (Wolff, J. (844) 34)

Tubulin-dye binding
Ruthenium red; Microtubule-associated protein; Resonance Raman (Deinum, J. (838) 197)

Tubulin-nucleotide interaction
Mg^{2+} effect; Tubulin polymerization; Microtubule-associated protein; GTP (Calf brain) (Huang, A.B. (832) 22)

Tubulin polymerization
Tubulin-nucleotide interaction; Mg^{2+} effect; Microtubule-associated protein; GTP (Calf brain) (Huang, A.B. (832) 22)

Tumoral cell
Anomeric specificity; Glucose metabolism (Malaisse, W.J. (847) 48)

Tumor-associated antigen
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Tumor cell mitochondrion
Hexokinase; Adenylate kinase; ATP supply (Nelson, B.D. (841) 195)

Tumor marker
Arylsulfatase A; Precursor polypeptide processing; Phosphorylation; Sulfation; Glycoprotein (Waheed, A. (847) 53)

Tumor promoter
Phorbol diester; Phosphatidylinositol; Phospholipid; Mitogen (Lymphocyte) (Mellors, A. (833) 181)

Phorbol ester; Teleocidin; Aplysiatoxin; Palytoxin; Prostaglandin E_2 (Rat macrophage) (Ohuchi, K. (834) 42)

Ribosomal protein S6; Protein phosphorylation (Rance, A.J. (847) 128)

Tungstate
Vanadate; Molybdate; Phosphodiesterase activation (Rod outer segment) (Del Priore, L.V. (845) 81)

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Hexose transport; Hexose carrier recycling (Mouse embryo fibroblast) (Kitagawa, K. (821) 67)

Xylanase; Gene expression; Protein secretion; Immunoprecipitation; mRNA translation (*C. albidus*) (Morosoli, R. (826) 202)

Glycosylation; Lipoprotein lipase; Monensin (Rat preadipocyte) (Chajek-Shaul, T. (837) 123)

Two-dimensional isoelectric focussing
Microvillus membrane; Membrane protein (Guinea pig intestine) (Wall, J.C. (815) 175)

Type II cell
Lung surfactant; Phosphatidylglycerol; Phosphatidylinositol (Fetal rat lung) (Batenburg, J.J. (833) 17)

Lung surfactant; Lysophosphatidylcholine acyltransferase; Lysophosphatidylcholine:lysophosphatidylcholine acyltransferase; Development (Fetal rat) (De Vries, A.C.J. (833) 93)

Phospholipid synthesis; Phospholipase (Fetal rabbit lung) (Aeberhard, E.E. (833) 473)

Surfactant-associated glycoprotein; Pulmonary surfactant; Immunoprecipitation; Glycosylation (Rat lung) (Whitsett, J.A. (828) 162)

Tyramine
Pinocytosis; Polyaspartamide (Duncan, R. (840) 291)

Tyrosinase
5,6-Dihydroxyindole; Melanin (Miranda, M. (841) 159)

Tyrosinemia
Succinylacetone excretion; Glucose transport inhibition; Oxygen consumption; Fanconi syndrome (Rat renal tubule) (Roth, K.S. (820) 140)

Tyrosine-*O*-phosphate
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Urate transport
Urate oxidase (*C. reinhardtii*) (Pineda, M. (820) 95)

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